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Wind, E. J.

The

Dahlia

Blue Book

for

1947



Rocky River Dahlia Gardens

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ROCKY RIVER 16, OHIO

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GREETINGS

E. J. Wind and the
Gov. Frank J.
Lausche Gold Cup
for sweepstakes at
the 1945 Midwest
Dahlia Show in
Cleveland.



WE ARE pleased to present our seventeenth annual DAHLIA BLUE BOOK as a greeting to our friends and customers. With it, we wish to express our appreciation to those who have taken the time to write us of their experiences with our stock. While it has not been possible to reply to each one personally, we, nevertheless, have enjoyed the many letters and cards. We prize them as highly as the orders which you have so generously favored us with.

We also wish to express our appreciation to Dr. L. J. Alexander, pathologist, and Dr. R. B. Neiswander, entomologist, of the Ohio Experiment Station for the help and guidance given us in our efforts to make dahlia growing a greater pleasure to you.

As in the past, the DAHLIA BLUE BOOK puts particular emphasis on exhibition dahlias as these represent the real QUALITY dahlias. Even those who have no desire to exhibit, will find the greatest pleasure comes in growing the best.

It has always been our policy to grow and produce stock in such a manner that it will give the ultimate in results when grown by our customers. All who receive the DAHLIA BLUE BOOK have our assurance that this policy will be continued.

General Information

PLEASE READ CAREFULLY

ORDER EARLY

Early orders have first call on varieties which are in limited supply. Also the earlier you order the more likely that your order will be shipped at the time you request. During the heaviest shipping periods, more orders are booked for shipment on specified days than can possibly be handled on those days so they are shipped in the order in which they are received.

DEPOSITS

No deposit is required. Just send in your order. Pay anytime before shipping date.

REFUNDS

In the event we are unable to supply all varieties on an order at the time specified for shipment, a partial shipment will be made. Every effort will be made to send the balance by June 1st. If the varieties can not be supplied by that time a refund of the purchase price will be made by check or, in the case of amounts less than one dollar, in stamps.

SUBSTITUTION

We never substitute one variety for another unless specifically requested to do so. If you have second or third choices you may list them on the order.

POSTAGE

We pay the regular postage on all retail orders but we urge that customers send enough to cover special delivery or special handling postage charges on all plant orders. Add twenty-five cents for special delivery, or if you do not have special delivery service from your post office, add fifteen cents for special handling. Special delivery and special handling are postal services which give priority to parcels at all postal terminals and often result in your receiving the parcel a day or more sooner than if sent by regular parcel post.

GUARANTEE

All stock shipped by the Rocky River Dahlia Gardens is guaranteed to be true to name, free from disease, and in good growing condition upon its arrival at its destination. Stock failing to meet these conditions should be reported just as soon as the failure becomes apparent if replacement is desired. We assume no responsibility other than replacement.

EXPORTS

Customers in other countries should obtain import permits from their department of agriculture and the necessary information regarding importation into their country.

SALES TAX

Residents of Ohio must include the three per cent sales tax with remittance.

TELEPHONE

EDison 0836.

VISITORS ALWAYS WELCOME

Visitors are welcome at the ROCKY RIVER DAHLIA GARDENS at all times of the year. Make this a stop when in the vicinity of Cleveland. Gardens are located about eight miles from downtown Cleveland, within two miles of all routes west.

ABBREVIATIONS

The letters immediately following the name of the variety are the key to the American Dahlia Society (A.D.S.) official classification of that variety. Explanation of abbreviations follows:

CLASSIFICATION

Size

- A—Large (Exhibition), 8 inches or over
- B—Medium (Cut flower), 4 to 8 inches
- Ba—Ball, 3½ inches or over
- M—Miniature, under 4 inches
- Pom—Pompon for exhibition purposes must be under 2 inches in diameter

Type of Flower

- An—Anemone
- Ba—Ball
- Coll—Collarette
- C—Cactus, any type, old classification
- D—Decorative, any type, old classification
- FD—Formal Decorative
- IC—Incurved Cactus
- ID—Informal Decorative
- Mig—Mignon
- O—Orchid Flowering
- P—Peony
- Pom—Pompon
- S—Single
- SC—Semi-Cactus
- StC—Straight Cactus
- Star—Star

Color

- Bi—Bi-color, two distinct clear and separate colors on the face of the floral rays; tricolors are included
- Bl—Blended, no clearly distinct color, but two or more intermingled colors which may contrast or harmonize. A single color shading lighter does not constitute a blend
- Var—Variegated, two or more distinct colors on the face of the floral rays, arranged in dots, flecks, splashes, or narrow lines which contrast with the ground color
- L—Lavender, mauve, mallow pink, phlox pink, lilac
- Or—Orange, buff, russet, copper, apricot, coral red, bronze, but not orange red hues that contain more red than orange
- Pi—Pink, cameo, salmon, rose, old rose, violet rose, tyrian rose
- Pu—Purple, violet, rosy magenta, purple reds, amaranth purple
- R—Red, crimson, scarlet, cardinal, carmine, garnet, maroon
- W—White, including ivory and cream
- Y—Yellow, straw, sulphur, lemon, primrose apricot yellow, golden yellow

VARIETIES MARKED

Varieties marked with asterisk (*) are of foreign origination.

HEIGHTS

Unless otherwise mentioned in the description of the variety, the plants are of medium height.

SIZE

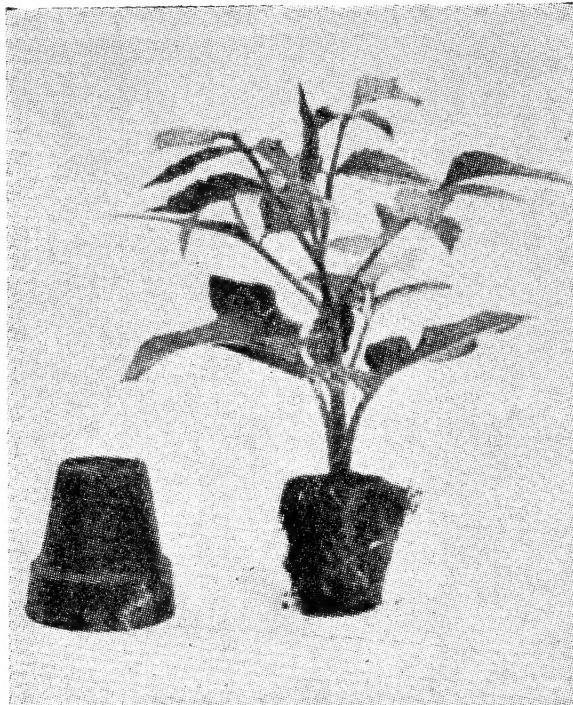
Size of blooms as given at the end of the description of each variety is by no means the maximum. Many of those listed as ten inch blooms have been grown twelve to thirteen inches in diameter. Size is indicated thusly: 10X6, which indicates a ten inch diameter and a depth of six inches.

CLUMPS

A clump list will be issued in early fall. This list is sent only to those who send in a special request for it. Clump offers are good only until December 1st with shipment not later than December 15th. If interested in purchasing clumps be sure to apply for the list early enough to get orders in before the December deadline.

DAHLIA SEED

Our dahlia seed is unsurpassed.
See Page 36



DAHLIA GREEN PLANT

Dahlia Green Plants

Dahlia "green plants" or simply "plants" as we refer to them in this book are little dahlia plants grown from cuttings. The cuttings are taken from selected clumps which are started into growth in the greenhouses during the late winter months. As soon as the sprouts are long enough to handle, they are taken off and placed in a special rooting medium. When the cuttings are rooted they are potted into three inch pots in a soil selected, or prepared to hold together in shipment.

After potting, our plants are carefully grown and constantly watched to insure plants of highest quality. At just the right time they are moved from the greenhouses into cold frames for the extremely important and exacting "hardening" process.

Our plants are shipped to all parts of the country in paper shipping pots, carefully packed to insure safe arrival. (See the paragraph on plants under "CULTURAL HINTS" in the back of this book.)

Properly grown plants produce flowers as early as flowers are produced from roots. As a rule the flowers from plants are superior. Growth, and total productivity of bloom, are equal to bushes grown from roots. Good clumps are formed for carrying the variety over winter. Plants are sold cheaper, not because of any difference in their worth, but because by use of careful propagation methods we are able to produce several plants from one root.

Our entire life to date has been spent as a grower of plants of all kinds, and this, supplemented by a technical education involving this subject, qualifies us to grow plants which are unsurpassed in the industry. The many highly appreciated letters which we receive each year bear out this contention. A rapidly expanding dahlia business has been largely founded on the superior quality of our plants. Regardless of your previous experience with plants, we strongly recommend that you give some of our plants a trial.

ROOTED CUTTINGS

Although we do not recommend the purchase of rooted cuttings by any other than experienced commercial plant growers, we will furnish high grade, well rooted cuttings of varieties which are listed in plants in this book. Prices are one-third less than the list price of plants.

RED SPIDER CONTROL

Last season was one of the best for dahlias. Evidence of this was the greater quantity and quality at all shows. DDT, used to control the pests which had previously been the greatest despoilers of blooms and foliage, was in a large measure responsible for the all-around better performance of gardens. Unfortunately, DDT also was indirectly responsible for the serious increase of red spider mite (see "Red Spider" under Cultural Hints in the back of this book). This pest had not previously been prevalent on dahlias, and as a result many growers failed to diagnose the trouble when it first appeared. As an outcome, the infestation got out-of-hand, causing irreparable damage, to plants and in some cases killing them.

We warned of the likelihood of red spider infestation in our 1946 DAHLIA BLUE BOOK, at which time we also recommended Dowspray-17 as the best control. Unfortunately, some of those who followed our recommendation had the misfortune to severely "burn" the foliage with this material. However, in our own plantings, we used it for the second successive year with highly efficient results and very little foliage damage. In view of the unhappy results some had, we conferred with Dr. Neiswander, of the Ohio Experiment Station, with the result that we feel more emphasis should be placed on the following factors:

- (1) Red spider mite are very hardy little insects and a powerful insecticide is necessary in order to have any effect on them.
- (2) All powerful insecticides are dangerous to foliage if not properly prepared and applied.
- (3) Dowspray-17 is a contact poison, which means that the insect must be contacted by the material to be killed by it.
- (4) Red spider are usually on the undersides of the leaves, and especially the lower leaves of the plant, hence diligent effort must be made to apply the spray where the insects are.
- (5) A fine fog-like spray, lightly and evenly applied, is less likely to cause foliage burn than a "wash" application, and does the job just as well. One application, if carefully applied, should rid the plants of red spider for the season. In some cases a second application may be necessary.
- (6) Dowspray-17 is not soluble in water but when mixed with water it forms a "suspension" spray preparation. Since it is a suspension, it is highly important that the material be kept well agitated from the time it is placed in the sprayer until used.
- (7) Lasting effect of Dowspray-17 diminishes as the temperature increases, and there also seems to be evidence that foliage burn is greater at higher temperatures.
- (8) Dowspray-17 appears to have greater effectiveness in the presence of DDT and may be applied in the same spray.
- (9) Care must be used to weigh out very closely the correct amount of material. Our recommendation of $\frac{3}{4}$ pound of Dowspray-17 to 100 gallons of water means that only $\frac{3}{25}$ of an ounce is required to a gallon of water. (Possibly, the aid of the neighborhood druggist can be enlisted in weighing the material for a small sprayer.) Dr. Neiswander has found that a spray made at the rate of $\frac{1}{2}$ pound of Dowspray-17 to 100 gallons is practically as effective as the $\frac{3}{4}$ pound preparation, with less danger of foliage burn.
- (10) There is no advantage in spraying before the insects are present.

DN-269

For those who prefer a dust to a spray, DN-269 should answer the need for an efficient dust. It has proven to be an adequate control for the red spider mite on dahlias at the Ohio Experiment Station. It is a dust which is purchased ready to use. It is less likely to cause injury to foliage. It may be slightly less effective than the spray but, if necessary, an extra application will probably give control comparable to the spray. Both Dowspray-17 and DN-269 are based on the same active ingredients and the same factors will apply to both. It is interesting to note that Dr. Neiswander controlled all dahlia insects with regular periodical application of a DDT dust and two applications of DN-269.

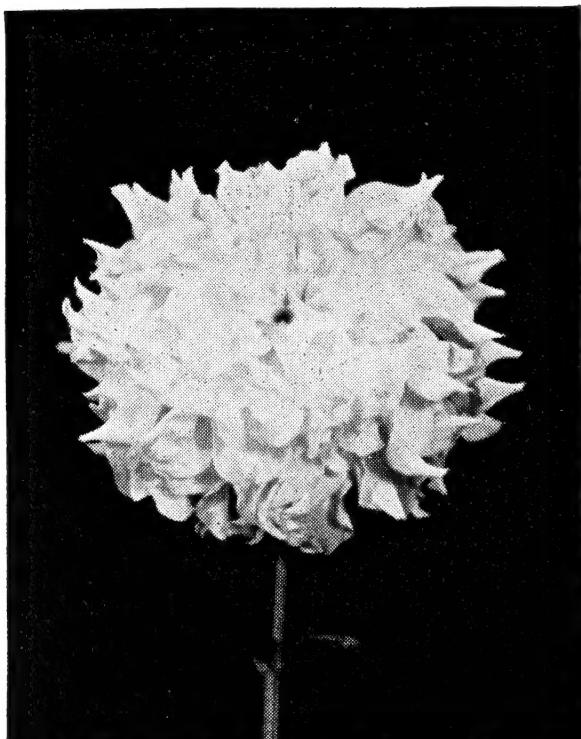
NNOR

NNOR is a product which has been on the market for a few years. It is a very good control for red spider and less toxic to foliage. This material is a liquid which is used as a spray according to manufacturer's directions. Those who find they can not use Dowspray-17 would do well to try it. NNOR is compatible with DDT and can be applied in the same spray.

OTHER METHODS

There are numerous other preparations and methods for the control of red spider. We feel sure that one of them should sufficiently answer your particular needs. However, we suggest that you consult your County Agricultural Agent or your state Experiment Station for their recommendation, or for their opinion of any product you plan to use. All insecticide manufacturers are working feverishly to produce the answer to the newly important red spider infestations.

ROCKY RIVER INTRODUCTION



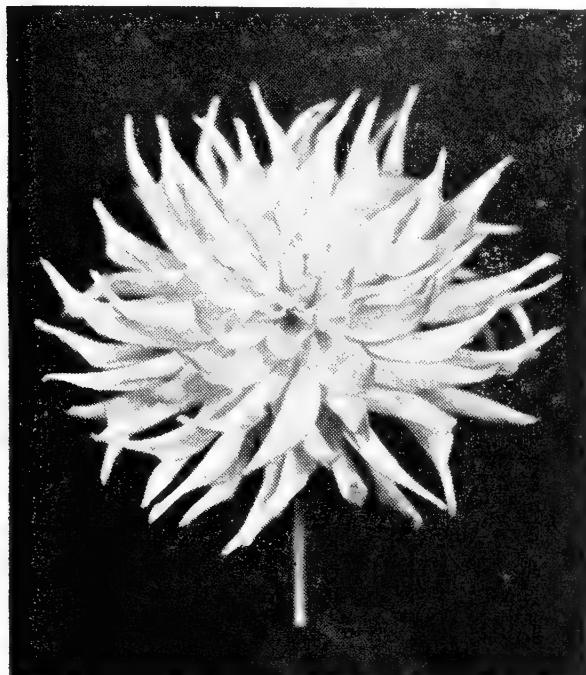
WINDLASSIE

WINDLASSIE ID (Rocky River) One of the whitest white dahlias we know. Petals are overlaid with a glistening sheen. When fully developed, this is one of the most ball-shaped flowers in this list. It will probably be classed as a "B" flower and as such is almost alone in the white informal class. Grown to its maximum of nine and a half to ten inches it has beaten the 'argest white informals now being shown. Flowers cut when they are apparently "prime" continue to grow in water and the back petals close in tightly around the stem. In spite of its ball-shape it does not bruise easily when packed to take to show. It is an open grower.

WINDLASSIE scored Certificates of Merit at Storrs and Baltimore and was on all Honor Rolls.

Root \$15.00, Plant \$7.50

ROCKY RIVER INTRODUCTIONS



CLARA HOOK

CLARA HOOK StC (Wolbert-Rocky River)

A large straight cactus of golden yellow, lightly suffused peach. Has been grown up to twelve inches in diameter. Flower has excellent substance. Stems are rigid. Plants tall with heavy, glossy, dark green foliage.

CLARA HOOK was the Derrill W. Hart Medal winner for large flowered dahlias in 1946. Also winner of Achievement Medals at Toledo, Ohio, and Louisville, Ky. Certificates of Merit at Cincinnati, Storrs and Baltimore. An outstanding winner in seedling and open-to-all classes since its first year. On all Honor Rolls.

ROOT \$15.00, Plant \$7.50



MAJOR VIERS

MAJOR VIERS FD (Viers-Rocky River) A

formal decorative of buff yellow with peach suffusion on outer petals. Petals roll back forming a deep flower. A very rugged grower and a dahlia that can stand forcing. Foliage is heavy and broad. Flowers average nine to ten inches but can be grown to twelve.

MAJOR VIERS was the winner of Achievement Medals at Cleveland and East Liverpool. Certificate of Merit at Baltimore and on Robert's Midwestern Honor Roll.

Root \$15.00, Plant \$7.50

ROCKY RIVER INTRODUCTIONS



RED TORNADO

RED TORNADO InC (Eccleston-Rocky River) The color is a dark reddish purple with a lighter purple on the reverse. Petals curl and twist to form a chrysanthemum-shaped flower of rare beauty. Flowers up to ten inches with proportionate depth. Plants are tall growers with attractive fern-like foliage. Best if not over fed.

RED TORNADO was the winner of the Achievement Medal at Wellsville, Ohio. At the same show, the Achievement Medal winning vase of three blooms was awarded the Australia Society's medal for "the best three bloom entry in the entire show." Shown frequently since its first year by Mr. Eccleston, and always a winner. On Western Honor Roll. •

Root \$10.00, Plant \$5.00



TWO IN ONE

TWO IN ONE InC-SC (Wolfe-Rocky River) Ox-blood red with outstanding cut flower qualities. Blooms average about six inches in diameter and about four inches in depth. One of the first to bloom in the fields and very prolific. Petals have good substance. Occasional blooms are bicolors being tipped white. A fast grower with dark foliage and nodes well spaced.

TWO IN ONE is primarily a variety for baskets or vases of a number of blooms. Cleveland florists like it. Certificate of Merit at Fairmont in 1945.

Root \$5.00, Plant \$2.50

New Novelties for 1947

Each year we select, what we believe to be the best, new varieties being released for the coming season. A number of these are listed below at introducer's prices. Others will be tested in our gardens during the season.

BILL JACK SC (Frank's) A white semi cactus for the over eight inch classes. Flower has good substance, stems are ideal and plants are tall. Size 10x6. Midwest Honor Roll. **Plant \$5.00**

CALIFORNIA PAGEANT ID (Ballay) Bright gold with bronze shadings. It appears to have the size to be a strong competitor in the largest bloom classes. Grown 13 inches in diameter at the trial grounds. Eastern and Western Honor Rolls. **Plant \$7.50**

CHEER ID (Dahliadel) A bright lemon yellow, splashed and striped bright red. Informals in this color class are welcome. Medium to large in size. Eastern Honor Roll. **Plant \$5.00**

DEEP VELVET FD (Baker-Ruschmohr) A formal decorative of dark carmine with an overlay of oxblood red. Petals have a deep velvety appearance. The all-around good qualities of this dahlia won for it, the Derrill W. Hart Medal for "B" size dahlias although it can be grown to "A" size. On all Honor Rolls. **Plant \$7.50, three for \$20.00 net**

ELODIE K. SC (Lakeside) Prolific bloomer on long stems with flower facing the side. An excellent florists' flower of pink, lavender and yellow. Petals are lacinated, and the flower has an interesting formation. Blooms will average five inches. Eastern and Western Honor Rolls. **Plant \$5.00**

KEMP'S PURPLE TRIUMPH ID (Kemp) Violet purple with shading of blackish purple. Effect is rich violet. Flowers up to twelve inches on good stems. Foliage dark and thick. Eastern and Western Honor Rolls. **Plant \$7.50**

MICHAEL BLACK ID (Phillips-Hook) Described as a purple of about the same shade of reddish purple as our great 1946 introduction, Mrs. Hester A. Pape. Blooms ten to eleven inches in diameter with good depth. Eastern and Western Honor Rolls. **Plant \$5.00, three for \$12.50 net**

MICHIGAN ORCHID FD (Keiser) This appears to be an excellent cut-flower dahlia of phlox purple with lots of blue shading. Good flower formation should make this a contender on the show table. Long stems. Medium size. Eastern and Western Honor Rolls. **Plant \$5.00**

MISS LIBERTY FD (Comstock) Bicolor of bright scarlet with round white sections on petal ends. Regarded as a very consistent bicolor. Blooms are about nine inches. Foliage is dark and broad. Long cane-like stems hold flowers on the side. On all Honor Rolls. **Plant \$7.50**

NORTHERN LIGHTS SC-C (Dixie Nurseries) A large white semi cactus bordering on cactus. Blooms up to eleven and twelve inches on good stems. Western Honor Roll. **Plant \$5.00**

PURPLE HEART InC (Frank's) Well formed blooms of an interesting blend of purple shades. Described as Rhodamine purple blushed lighter mallow purple. Seven to eight inch flowers. Midwestern and Eastern Honor Rolls. **Plant \$3.75**

RED CHAMPION FD (Robens) A very large spectrum red, blended buff with the base of the petals picric yellow. General effect is flame. A formal decorative with blooms up to twelve inches, should be a winner. On Eastern Honor Roll. **Plant \$7.50**

REFUGEE StC-InC (Keck) A real addition to the yellow cactus class. Highest scoring dahlia at Storrs in 1945. Winner of the "Flower Grower" award for the best medium sized undisseminated variety at New York. A good cut flower. Six inch flowers. On Eastern Honor Roll. **Plant \$5.00**

RUTH ANN SC (Dorff) Blend of empire yellow with grenadine pink. Petals are deeply serrated and crinkled. Attractive formation. Medium sized flowers averaging about seven inches. Eastern Honor Roll. **Plant \$5.00**

SALLY KLEIN FD (Kelly-Parrella) General effect pink, described as Tyrian pink and pinard yellow with both colors showing in lines on the broad petals. Blooms average about nine inches. On all Honor Rolls.

Plant \$7.50, three for \$20.00 net.

SEPTEMBER ID (Rainbow) A beautiful informal decorative blend of reddish orange with buff and rose pink. Blooms nine to ten inches. Eastern and Western Honor Rolls. **Plant \$5.00, three for \$12.50 net.**

SESQUI QUEEN InC (Frank's) Creamy white around the high center of grenadine purple, blending into deep rose-pink. Blooms six to seven inches. Midwestern Honor Roll. **Plant \$3.75**

SKYROCKET StC (Sarett-Ruschmohr) A clear vermillion, straight cactus growing up to twelve inches in diameter. A very "neat" flower with an impressive pre-introduction winning record. On all Honor Rolls.

Plant \$7.50, three for \$20.00 net

STEPHEN H. SC-ID (Dorff) Color, outside pink with yellow center. Good grower producing nine to eleven inch blooms. Western Honor Roll. **Plant \$5.00**

WHITE BEAUTY FD (Robens) One of the largest white formals, often over twelve inches in diameter. Long stems. Eastern Honor Roll. **Plant \$5.00**

Small Types

FUCHSIA GEM SC (Lakeside) This is a real gem and in a needed type and color. Small, well formed purple semi cactus. Extremely profuse. Eastern Honor Roll. **Plant \$2.00**

MISS PLUMB FD (Beaver-Dahliadel) Bright rhodamine purple shading lighter toward the center. Like Fuchsia Gem, it belongs in a color class which needs bolstering. All Honor Rolls. **Plant \$1.50**

NANCY FD (Albaneese-Premier) A very vivid scarlet red formal decorative with long stems. Prolific. Winner of the A.D.S. Silver Trophy for best miniature at the New York show in 1946. **Plant \$1.50 net**

COLLECTIONS

Varieties in collections are all different and all labeled but are strictly our selection.

COLLECTION A:	Six pompons (roots)	\$1.50
COLLECTION B:	Six miniatures (roots)	1.50
COLLECTION C:	Four plants, to acquaint customers with our superior plants ..	1.00
COLLECTION D:	Eight roots of large types with a value of not less than \$7.50. Buyer may state preference for large type or for cutflower size	5.00
COLLECTION E:	Twelve plants of either large type or cutflower size. Value of not less than \$7.50	5.00
COLLECTION F:	One plant each of our four great 1945 introductions, Black Monarch, Clarium Kelton, Kirsten Flagstad and Jane Lausche. All are pictured in this catalog. Value \$8.00	5.00

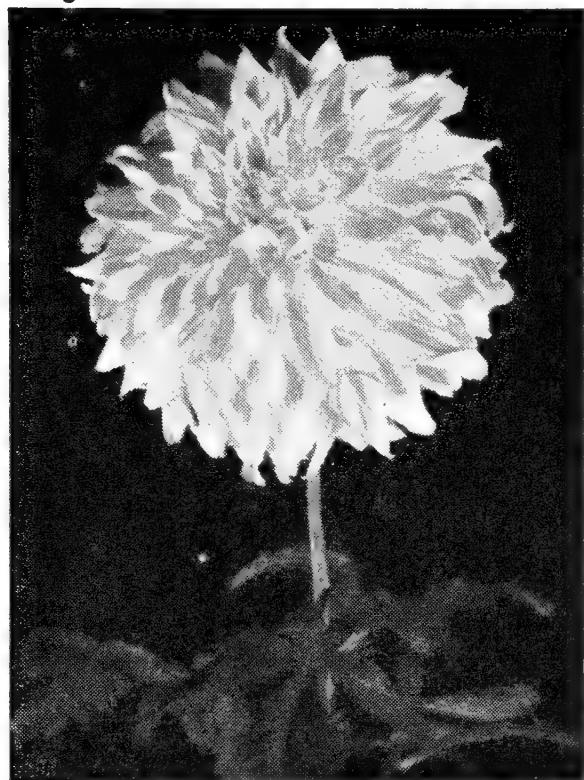
General List of World's Best Dahlias

***ADOLPH MAYER** A-ID or SC-R. This excellent variety from Holland comes nearer to being black than any dahlia in this list. The deep garnet red flowers are of good size; the petals have a velvety appearance and it keeps well when cut. Stems are ideal. A strong, freely branching plant, with dark green foliage. Abundant flowering habits. It is also a fine root maker. Size 9x3.

Root \$1.00, Plant .50

AGLOW A-ID-BI (Dahliadel) Warm amber yellow, heavily suffused scarlet on the center area of each petal, and with a golden sheen over all. Fine open grower producing good blooms on long, strong, stems. Size 10x4. Plant \$2.00

ALCAZAR A-SC-R (Ballay) A nicely formed flower of good size. The color is an unusual fuchsia red with a trace of cerise. Habit of growth is excellent. Size 9x4. Plant \$3.50



ALICE MAY

***ALICE MAY** A-ID-W. This one from Australia might well be described as a white Lord of Autumn. The blooms are large and of great depth. Stems, foliage, and substance are excellent. The low growing plants produce many fine exhibition blooms. We consider it the finest of all the large "whites." A very consistent winner at leading shows. Size 9x5.

Root \$2.00, Plant \$1.00

ALL AMERICAN A-SC-BI (Salem) A very large flower of mulberry rose suffused salmon and with wax yellow at the base of petals. Plants are medium in height, very vigorous and insect resistant. Blooms are held almost on top of strong, straight stems. A very free bloomer which was one of the greatest favorites in our gardens the past season. On the show tables it is almost in a class by itself, winning innumerable prizes wherever shown. Size 10x4.

Root \$1.50, Plant .75

AMERICAN PURITY A-SC-W (American Dahlia Farms) One of the largest white semi cactus varieties. It is especially good late in the season, altho it isn't a particularly late bloomer. It has more depth than any white in its class. Size 9x5.

Root \$1.00, Plant .50

ANGELUS A-IC-BI (Parenica) A big, showy cactus of brilliant red heavily suffused gold. Early and prolific. Size 10x4. Root \$1.50, Plant .75

***AXFORD TRIUMPH** A-ID-Or. A large Australian variety which is becoming very popular with our exhibition growers. The general color effect is tan. Plants are robust with good foliage. Good stems. Size 11x4. Root \$2.00, Plant \$1.00

BALLAY ROUGE A-IC-R (Ballay) Of brightest red and having an unusual formation. Petals curl and twist in an artistic manner. Blooms are larger than commonly found in this type. Size 8x4. Root \$5.00, Plant \$2.00

***BALLEGO'S SURPRISE** A-SC-W. A real top-notcher best described as a white Frau O. Bracht. Plants, however, have more vigor than the latter variety. A fine dahlia in the garden as well as one of the best exhibition and commercial varieties. Size 8x4.

Root \$1.50, Plant .75

BATAAN B-SC-BI (Retzler) A fairly large flower; red lightly tipped gold. This variety seems to have performed well this past season as it was more in evidence at the shows, which we attended, than any other 1943 introduction. Size 9x3.

Root \$1.00, Plant .50

BEAU BRILLIANT A-ID-R (Ballay) Fairly large blooms of cherry red. Very profuse in its blooming habits and a reliable performer in the garden.

Root \$1.50, Plant .75

BEDFORD BEAUTY B-IC-L (Parenica) A delicately formed flower of equally delicate coloring. The color is pinkish lavender shading lighter toward the center. Petals are tightly rolled from tip to base. A very profuse bloomer. Size 6x2 $\frac{1}{2}$.

Root \$3.00, Plant \$1.50

BELVEDERE A-ID-Pi (Ballay) Large blooms of silvery pink. Formation and substance is all that could be desired. A strong grower that is very attractive in the garden and a potential winner on the show table. Size 10x4.

Plant \$1.50

BESS SMITH A-ID-W (Anderson) A very good white informal with a slightly creamy center. Fine stems. Blooms have very good substance and do not burn readily in hot weather. Good habits of growth. Size 9x3.

Root \$1.50, Plant .75

BETTE DAVIS A-SC-L (Cordes) A standout in its color and class as an exhibition variety. The large, well formed flowers are rosy lavender to deep lavender. Excellent stems. Size 9x3 $\frac{1}{2}$.

Plant \$1.00

***BILL'S GOLD** A-ID-Or. One of the finest "gold" dahlias to date. Very large blooms. Stems straight and strong. Plants medium in height. Winner of many championships in its native Australia and a consistent winner here. Size 9x3 $\frac{1}{2}$.

Root \$1.50, Plant .75

***BILL'S SPLENDOR** (A-ID-Pi) Large blooms of luminous rose pink with good formation. An early bloomer and good grower. This is one of the best of many Australian varieties introduced into this country. Size 10x4.

Root \$2.00, Plant \$1.00



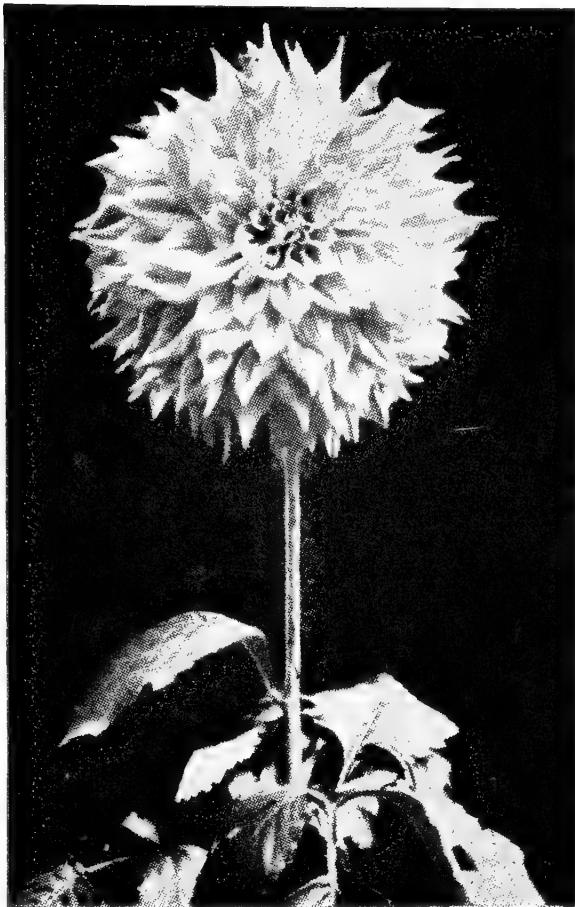
BLACK MONARCH

BLACK MONARCH A-SC-R (Pape-Rocky River) A very dark oxblood red, aptly described by a garden visitor as "the big misty black dahlia." A strong grower and free bloomer. Stems are long and strong holding the flower well above the plant. Blooms have a lot of substance and keep well after cutting. Size 11x5.

Root \$5.00, Plant \$2.00

BLUE HORIZON (Franklin). Will probably be classed A-ID-L. Blooms are quite large with good depth. It is a very free bloomer. The color is described as French violet. One of the best of the 1945 introductions. Size 9x4.

Root \$5.00, Plant \$2.00



CALIFORNIA IDOL



CHEADLE PARK

CHEER LEADER B-ID-L or Pi (Richardson) Outstanding because of its free flowering trait under all conditions. Blooms are fairly large and have very good substance; keeping well on the plant and after cutting. Stems are ideal. The color is rose-pink. Size 8x3½.

Root \$1.00, Plant .50

CHEROKEE BRAVE A-ID-R (Ricks) We consider this to be the best of the large exhibition "reds." The large, deep flowers are an attractive shade of ox-blood red, which holds the color well in hot weather. It blooms quite early and continues throughout the entire season. Excellent stems and foliage. Size 11x5.

Root \$1.00, Plant .50

CALIFORNIA IDOL A-ID-Y (Ballay) A giant, clear yellow that can win in any class of competition. We consider it the easiest of the big exhibition yellows to grow. The flowers have great depth and are set facing, on exceptionally long stems. Size 10x6.

Root \$1.00, Plant .50

CARL G. DAHL A-ID-BI (Scott) A very large, well formed flower of peculiar shadings of emberglow with a golden sheen and a sweetbriar reverse. Stems are excellent, holding the flower facing up. Recommended to those who like their dahlias big. Size 12x5.

Root \$1.50, Plant .75



CHEADLE PARK A-SC-Pu (Eccleston-Rocky River) A welcome addition to the weak purple semi cactus class. The color is a very dark reddish purple with lighter purple on the reverse. Blooms are well formed, with good depth. Plants are upright growers with strong laterals. Size 9x4.

Root \$7.50, Plant \$2.50



CHEADLE PARK

CHEER LEADER B-ID-L or Pi (Richardson) Outstanding because of its free flowering trait under all conditions. Blooms are fairly large and have very good substance; keeping well on the plant and after cutting. Stems are ideal. The color is rose-pink. Size 8x3½.

Root \$1.00, Plant .50

CHEROKEE BRAVE A-ID-R (Ricks) We consider this to be the best of the large exhibition "reds." The large, deep flowers are an attractive shade of ox-blood red, which holds the color well in hot weather. It blooms quite early and continues throughout the entire season. Excellent stems and foliage. Size 11x5.

Root \$1.00, Plant .50

CHEROKEE ROSE A or B-ID-L (Ricks) This is one of the most consistent producers in our gardens. The flowers are medium to large in size, and of more than average depth. The color varies from lilac pink to a warm rose pink. Plants are tall and freely branching. Flowers keep well, either on the bush or after cutting. Size 8x4.

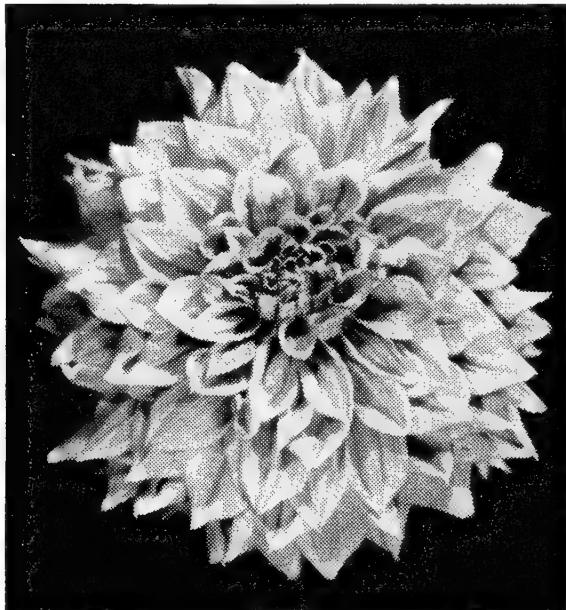
Root \$1.00, Plant .50

CLARIAM B-ID-BI (Wolbert) A very pleasing and consistent variety in the garden. Medium sized blooms of light, bronzy buff overlaid begonia rose. Stems are long and rigid holding the bloom well out of the bush. Very early and free bloomer and also a good keeper when cut. Size 7x3.

Root \$1.00, Plant .50

CLARIAM BELLE A-ID-Bi (Wolbert-Rocky River) A bi-color without the harshness so often associated with bi-colors. Petals are primrose-yellow, each with about three-quarters of an inch of white at the tip. Color markings are less variable than in most bi-colors. Plants are strong growers with heavy, glossy, dark green foliage. Flowers held facing the side. Size 9x4.

Root \$1.50, Plant .75

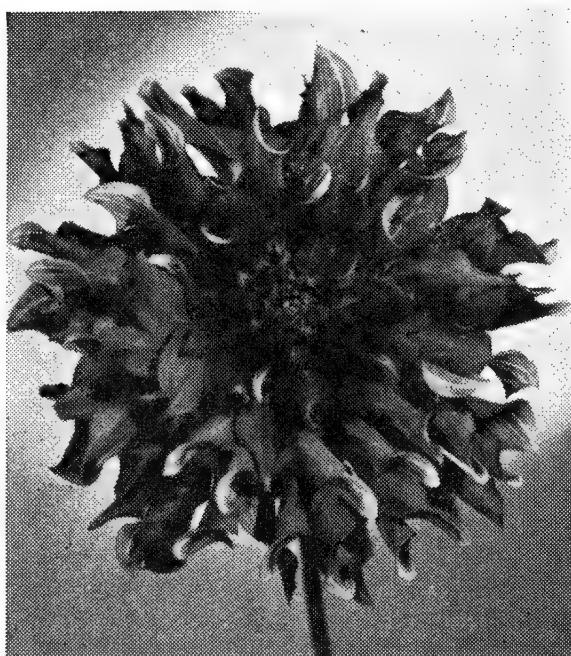


CLARIAM DAWN A-FD-Or (Wolbert-Rocky River) General effect is orange, which is composed of a blend of cadmium orange, capucine yellow and buff with a glistening effect over all. A much needed variety in its class. Size 9½x4.

Root \$7.50, Plant \$2.50



CLARIAM DAWN



CLARIAM KELTON

CLARIAM KELTON A-ID-BI (Wolbert-Rocky River) Fairly large blooms of flame red blended with yellow and with yellow reverse. Very showy in the garden and a consistent winner at shows. Plants are tall, open growers, producing an abundance of flowers on long, strong stems. Several have written that this was one of the pleasant surprises of the 1945 introductions. Size 9x4.

Root \$3.00, Plant \$1.50

CLASS A-FD-Y (Salem) An excellent variety for exhibition as it is one of the few formals which remain formal at all stages of maturity. The color is a medium shade of yellow. A prolific bloomer on compact plants. Size 10x4½.

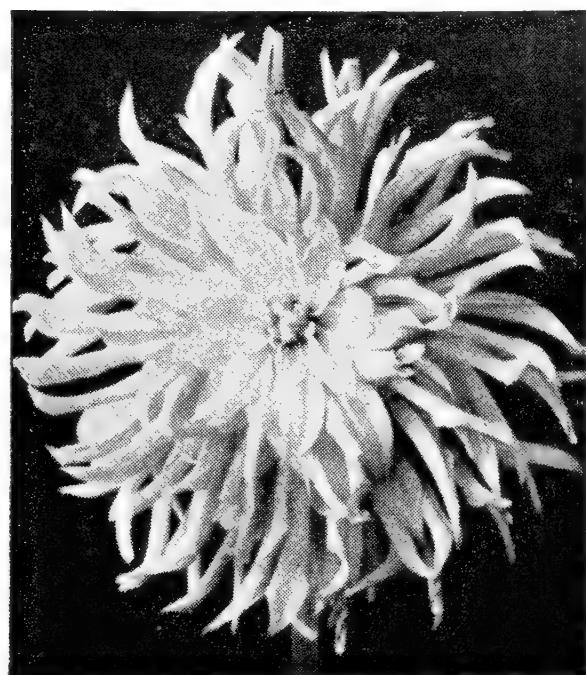
Root \$1.50, Plant .75

COL. A. G. RUDD A-ID-R (Geer) Rich carmine with deeper, mahogany red at the center. It is a real factor in the red classes. Strong, tall grower. Size 10x4.
Root \$2.00, Plant \$1.00

COL. LITTLE A-ID-BI (Ambrose) A very showy, bright scarlet-orange, with twisting petals showing the lighter reverse. A good grower, carrying the flowers well above the fairly tall plant. Good stems. This brilliantly colored dahlia is bound to be popular. Size 10x5.
Root \$10.00, Plant \$3.50

CONFUCIUS A-SC-R (Ballay) Coral red blooms of large size. Very early and free bloomer. Bushes are medium in height. Stems are long and slender holding the flowers at a nice angle. Size 9 $\frac{1}{2}$ x4.
Root \$1.00, Plant .50

CORAL CACTUS B-InC-Pi or BI (Bennett-Beckman-Ruschmohr) A beautiful shade of coral pink, shading to yellow at centers. Very early and profuse bloomer. Open grower. Size 8x4.
Root \$5.00, Plant \$2.00



CROWNING GLORY

CROWNING GLORY A-IC-Pi (Salem) One of the real sensations of the 1941 introductions. Exceedingly large; rose pink with cream center. Stems are ideal. Flower formation is very artistic. It was very much in evidence as a blue ribbon winner at all the leading shows of the past seasons. Size 10x5.

Root \$3.00, Plant \$1.50

***CROYDON ACME** A-FD-L One of the largest and deepest flowers of it's color. Almost unbeatable in the formal lavender classes. Plants are strong growers. Excellent stems. Size 10x6.

Root \$2.00, Plant \$1.00

DAHLIAMUM A-ID-Or (Chemar) A very large, deep flower of cadmium apricot with a golden sheen. Stems are strong, carrying the flower on top. Size 10x5.
Root \$1.00, Plant .50

***DARCY SAINSBURY** A or B-FD-W. This Australian variety is now the most popular of all white dahlias for exhibition, winning scores of awards throughout the country's leading shows each year. Its pure white color and free flowering habits make it a standout in the garden too. The flowers are fairly large, and have all the qualities of a good dahlia. Size 9x4.
Root \$1.00, Plant .50

D-DAY B-FD-Pi (Hendricks) A medium sized variety of true pink. A fine florists' flower and an excellent candidate for "best bloom" classes at shows. The flowers are well formed, with very good substance, and the stems are ideal. Plants are tall, open growers and productive. Size 7x3 $\frac{1}{2}$.
Root \$5.00, Plant \$2.00

DEAN SHUTLEFF A-ID-R (Taylor) Tall sturdy grower carrying the large crimson flowers well above the dark, heavy foliage. Size 10 $\frac{1}{2}$ x5.
Root \$2.00, Plant \$1.00

***DELTA** A-FD-L Another fine dahlia from Australia. The blooms are large and massive, with exhibition perfection. The color is a very pleasing magenta-rose. The plant is a rugged grower, with very distinctive, dark green, glossy foliage. Size 9x5.
Root \$1.00, Plant .50

DIXIE'S WINE DOT A-ID-Var (Hendricks) A variegated white, splashed with wine color. Blooms can be grown to twelve inches in diameter with corresponding depth. Winner of the American Home Achievement Medal at Chicago, Toledo, and New Baltimore in 1942. A strong grower. Size 11x5.

Root \$1.50, Plant .75

DOROTHY GEER B-FD-Pi (Geer) This was one of the most attractive and pleasing dahlias in our gardens during the past season. The flowers are medium sized; of light rose pink, shading lighter towards the tips. Blooms are uniformly of exhibition quality. This one should be a factor in classes calling for the most perfect bloom in the show. Bushes are tall and well formed. Size 7x3 $\frac{1}{2}$.

Root \$1.00, Plant .50

DOROTHY LAMOUR A-StC or SC-Or (Ballay) One of the few real golden dahlias. Fairly large blooms of excellent formation. Long, strong, stems. The bushes are tall with foliage more typical of a decorative variety than of a cactus. One of our favorites of the 1941 introductions.

Plant \$1.00

DOUBLE DUTY B-FD-L or Pi (Hendricks) A medium sized flower for the florists' trade and an exceptionally good variety for exhibition. Color varies from pink to lavender. Flowers are very full petaled and the petals roll well back forming a ball-shaped bloom. Stems are excellent and the plant is a good grower. A very free bloomer. Size 8x4.

Root \$2.00, Plant \$1.00



DULCINEA cutting. Plants are robust growers. Size 12x5 $\frac{1}{2}$.

Plant \$1.00

ENGLE'S WHITE CHIEF A-FD-W (Engle) This 1944 introduction was one of the best performers of the past season in our fields. Large blooms up to twelve inches with heavy, waxy, pure white petals. While some stems are a trifle short, most are of suitable length for exhibition purposes. Plants are strong growers with heavy, glossy foliage. Size 10x4 $\frac{1}{2}$.

Root \$2.00, Plant \$1.00

ESSIE SMITH A-SC-Pi. or L (Smith) One of the largest of recent introduction. Winner of several "largest bloom" awards this past season. Color varies from lavender-pink to lavender. Flowers have great depth giving them a massive appearance. A good grower. Size 11x6. **Plant \$2.00.**

***EXTOILE DE NAGLES C** A fine European variety with plenty of substance and of excellent formation. Petals are tightly rolled and the flower is well formed. Color is crimson-red. Size 8x3 1/2. **Plant \$2.00**

EVENTIDE A or B-ID-Pu (Bissell) One of the finest of the 1940 introductions. The flowers are a deep violet-purple, fairly large, and of distinctive beauty. Each petal is notched, adding very much to the appearance of "fullness" created by the rolling of the back petals to the stem. A free, early bloomer that will win its share of prizes. Plants are broad, spreading, and rugged. Foliage is dark and leathery. Size 9x4 1/2. **Root \$1.50, Plant .75**

FAITHFUL A-SC-W (Dahliadel) A fairly large, wide petaled, semi cactus white that is easy to grow. Plants are robust with glossy green foliage and fairly tall. Well proportioned stems. Size 9x4 1/2. **Root \$3.00, Plant \$1.50**

FARNCOT B-InC-Bi or Bl. An old-timer, which is still one of the best in the bi-color cactus classes. The color is a deep purple, with the outer one-third of the petals tipped pure white. Like most bi-colors it will produce some solid colored flowers. Size 6x3. **Root \$1.00, Plant .50**



FIGARO

***FIGARO A-SC-Var.** Reputed to be a seedling of Satan, with many of the good characteristics of the parent, and none of the faults. The color is a golden-yellow, flecked and streaked red. The flowers are very large, and most striking in appearance. Stems and plant growth are excellent. A superb exhibition flower which is outstanding in the bi-color classes. Size 11x5. **Plant .75**

FIVE STAR GENERAL A-FD-BL (Ramage-Ruschmohr) One of the largest formal decoratives. The color is two or three shades of pink blended with maize yellow. Long strong stems. Good grower. Size 11x5.

Root \$10.00, Plant \$3.50

FLASH B-InC or SC-Bi (Salem) This flashy bi-color is certainly a welcome addition to the "bi-color cactus class" at shows. The color is a brilliant, vivid red, with each petal tipped pure white. Flowers of medium size are carried nicely on good, long stems. Size 8x4. **Plant \$1.00**

FORMOSA (Salem) This was one of our personal favorites of the past season. The blooms are fairly large, and the color is a very clean, attractive amaranth pink shading to Tyrian pink. It is a bright flower on strong stems, and the bushes are rugged. Not yet classified by A.D.S. but it would seem to be A-FD-Pi. Size 9x4. **Plant \$1.00**

FRANCES DEWEY A-SC-R (Tooker) Fairly large flowers of scarlet-red. Good stems. Plants are robust and free branching. Size 9 $\frac{1}{2}$ x4.

Root \$1.50, Plant .75

***FRANZ BERGER** B-C-R. Russet-red. Flowers of medium size with excellent, stiff stems. Flowers keep exceptionally well after cutting. Plants are up-right growers, producing exceedingly well. Size 8x3 $\frac{1}{2}$.

Root .75

***FRAU IDA MANSFIELD** A or B-StC-Y. A very attractive, pale lemon yellow that is always a favorite in our gardens. The flower is very deep and large for this type. The tips of the petals are cleft giving the flower added character and the appearance of having many more petals than there actually are. Early. Tall. Size 8x4.

Root \$1.50, Plant .75

***FRAU O. BRACHT** A or B-SC or IC-Y. This dahlia should be in every garden. We consider it one of the finest on the market. The perfectly formed flowers are a clear, light, primrose, yellow of good size. A fine dahlia for the exhibitor or casual grower. Size 8x4.

Root \$1.00, Plant .50



FREDA GEORGE

***FREDA GEORGE** A or B-ID-BI. A large Australian variety which attained instant popularity in this country. Artistically formed and delicately colored, and with all the characteristics of a good exhibition variety, its popularity is justified. The color is a soft, creamy pink, overlaid helio, darker toward the tips and shading to a deep cream at the base. Early and prolific. Size 9 $\frac{1}{2}$ x5.

Plant .75

FRIEDA GAYLORD A-ID-BI (Ballay) A magnificent dahlia of remarkable size. The color is rosy pink lightly shaded gold. Sturdy plants produce the large blooms on nice strong stems which hold the flower well above the plant. Size 12x7.

Plant \$3.50

GAYLORD BALLAY A-ID-W (Ballay) We believe this is the largest of the informal "whites." Blooms exceeding twelve inches in diameter are not uncommon. Long, strong stems carry the blooms well above the tall plants. Although not an early bloomer, it should be "topped" when small to encourage lateral development. Size 10x5.

Root \$3.00, Plant \$2.00

GEN. JOHN J. PERSHING A-SC-BI or Var (Ward-Ruschmohr) A sport of Virginia Rute with all the characteristics of that great variety. The general color effect is tan. Petals are striped and splashed violet. Tall grower and good bloomer. Size 11x6.

Root \$3.00, Plant \$1.50

GINGER ROGERS A-ID-Y (Ruschmohr) A very large, deep yellow of a most attractive shade. Blooms have very great depth, being nearly "ball-shaped" when mature. A free bloomer. Plants are vigorous with good foliage. We believe this is one which will be with us for some years. Size 9 $\frac{1}{2}$ x6.

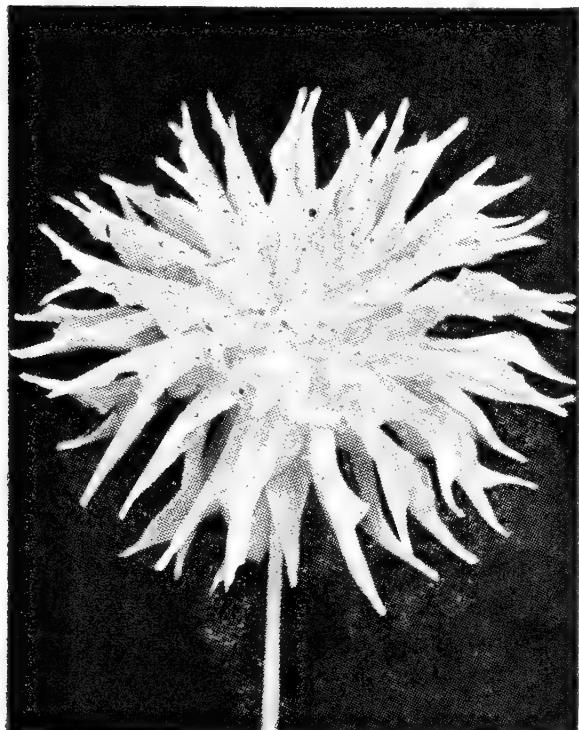
Plant \$1.00

GLAMOUR A-ID-Pu (Salem) A notable addition to the really large dahlias. Everything about the flower suggests size and vigor. It is a variety which anyone seems to be able to grow well under almost all conditions. The very large flowers are an unusual shade of light purple with each petal edged amaranth pink. The petals roll well back giving the flower extreme depth. A consistent winner at the best shows in both specimen bloom and "largest bloom in the show" classes. Size 12x7.

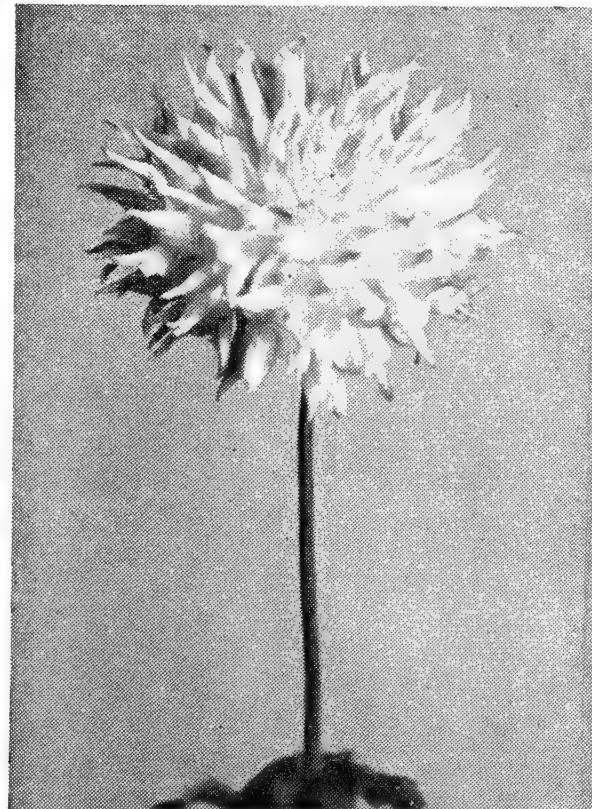
Root \$1.50, Plant .75

*GOULBURN A-IC-BI. A very large Australian cactus which fills a real need on the show table. Flowers have a deep lemon base blending to reddish apricot at the tips of the petals. Very outstanding. Size 10x4 $\frac{1}{2}$.

Root \$3.00, Plant \$1.50



GREATER GLORY



HIAWATHA

Lord of Autumn. Blooms have great depth. Plants are strong growers and free branching. Should be planted early for early shows. Size 11x6.

Root \$5.00, Plant \$2.00

GREATER GLORY A-SC-Pi or Bl (Salem)

A very large semi cactus of rose pink, shading lighter. Excellent formation and a consistent winner at strong shows. Tall grower. Size 9 $\frac{1}{2}$ x4 $\frac{1}{2}$.

Plant \$1.00

HALLEY'S COMET B-StC-Bl (Retzer) A

brightly colored flower of deep rose-red blended chrome with yellow at the base of the petals. Strong, fairly tall grower. Size 7x4.

Root \$3.00, Plant \$1.50



HIAWATHA A or B-C-Y (Devney-Rocky River)

Clear buttercup yellow on very long stems. Petals are pointed and twisting. Good substance, the flower holding it's form nicely on the plant or after cutting. Plants are tall and are good growers. Does best if not overfed. Size 9x5.

Root \$7.50, Plant \$2.50

HILLSIDE GOLD B-StC-Y (Bissell) A very free blooming variety of excellent quality. The color is a bright golden yellow with an apricot glow. Plants slightly below average in height. Size 8x4.

Plant .75

HOOSIER MARVEL A-SC or ID-Y (Wolfe)

One of the very largest. The color is about the same shade of yellow as

the HIAWATHA.

Plants are strong growers and free branching. Should be planted early for early shows. Size 11x6.

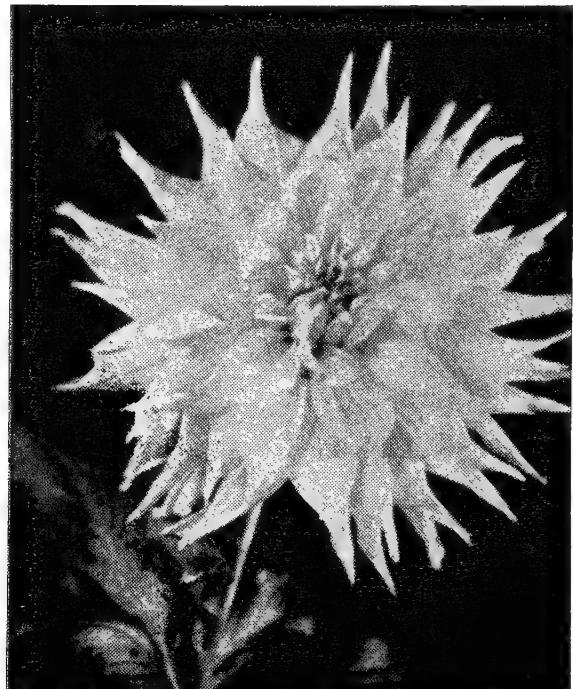
Root \$5.00, Plant \$2.00

INDIAN GIANT A-ID-Or (Emmons) The general appearance is tan or apricot. Blooms are large, with all the good qualities of an exhibition variety. Plants are bushy and of slightly less than medium height. It is a welcome addition to the autumn informal classes. Size 11x4½.

Root \$2.00, Plant \$1.00

INDIAN SUMMER A-SC-Or (Goetzer) Nicely formed flowers of medium size. The color is golden yellow with soft orange suffusion. Tall plants, with dark green foliage.

Root \$1.00, Plant .50



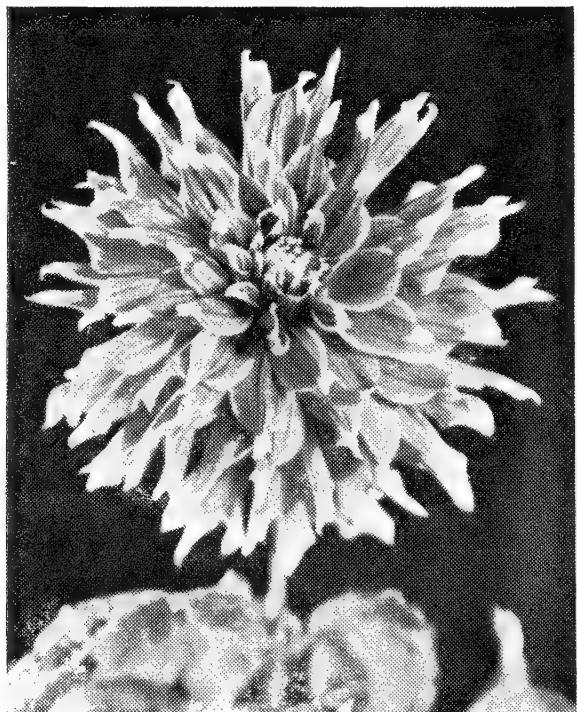
IVORY PRINCESS

IVORY PRINCESS A-SC-W (Hawkins-Ruschmohr) Extremely large, well formed flower of an unusual ivory shade. Long, stiff stems. Tall grower. Winner of many awards including Achievement Medal at Kearney, N. J. Will be hard to beat in its color and type. Size 11x7.

Plant \$1.00

JAMES ROSS A-ID-R (Dorff) A striking large flower of velvety, reddish purple, which does not fade. The naturally large flowers are held well above the rugged plants on good stems. This 1944 introduction performed well throughout our unfavorable season. Size 10x5.

Root \$5.00, Plant \$2.00



JANE LAUSCHE

JANE LAUSCHE A-SC-Bi (Rocky River) A new color combination in a large dahlia. Rosy mauve with about one-third of each petal tipped white. Just about all the superlatives in the dictionary have been used to describe it. Winner of several "largest bloom" and "most perfect bloom" awards in its first season. The plants are open, fast growers and produce blooms early, and in profusion until frost. A standout in the semi-cactus bi-color class. Size 10x6.

Root \$7.50, Plant \$2.50

JEAN KERR Ba-W or B-FD-W (Burpee) A medium sized white which is unsurpassed as a cut-flower of the formal type. Also very useful for exhibition. A very free bloomer. Size 5x3.

Root .50

***JEAN PATURET A-StC-Y.** One of the largest of the straight cactus sorts. The color is deep yellow of one tone. Size 8x4.

Plant .75

***JEAN TRIMBEE** A-SC-Pu. A Canadian introduction of a few years ago which yearly piles up one of the finest show records of any dahlia. Large flowers of a rich violet shade. Tall grower. It is one of the first dahlias in the garden to bloom and it is a free bloomer thruout the season. Size 9x5.

Plant .50

JERSEY'S BEAUTY B-FD-Pi (Waite) The most universally grown dahlia of the present. Eosine pink, of medium size. Our stock of this is exceptionally fine. Size 7x4.

Root .50, Plant .50

JERSEY'S DAINTY B-StC-W (Waite) Still a top-notcher after many years. Winner of many blue ribbons the past season as well as numerous "specials." A really good white cactus for shows. Size 7x4.

Root \$1.00, Plant .50

JOAN FERENZ A-ID-Y or Bl (Rindfleisch-Rushmohr) Large flowers of pleasing formation. General color effect is deep yellow-gold, although there is a flush of spinel pink in outer petals. An early bloomer and consistent performer here in our gardens. Size 9x5.

Root \$.500, Plant \$2.00

JOHN ADAM KERNOCHAN B-FD-Bi (Fioretti-Parrella) A medium sized bi-color which is very nearly ball-shaped. Color is garnet red with each petal tipped white. Stems are long. Plant is a tall, vigorous grower. Size 7x4.

Root \$1.50, Plant .75

JOHN L. STEVENS B or M-StC-Bi (Premier) A red and white bi-color very similar to the old favorite Miss Belgium in formation and habits of growth. Blooms are five to six inches in diameter and very well formed for exhibition. Grown as a miniature and not disbudded, it presents a very striking appearance in the garden. Size 5x3.

Root \$1.50, Plant .75

***KARDINAL VON ROSSUM** A or B-SC-Pu A fairly large flower of dark violet purple. One of the best in its class. Plants are rather low and spreading in growth. Size 8x4.

Plant .75

***KELVIN** A-ID-Pi. One of the greatest dahlias to come out of Australia. Blooms are large and massive, held facing up on strong stems. The color is buff heavily suffused carmine rose, giving a general color effect of peach pink. Strong plants with exceptionally coarse, broad foliage. Size 10 $\frac{1}{2}$ x6.

Plant \$2.00

KENTUCKY SPORTSMAN A-ID-Bi (White) An unusual color combination of three distinct colors. Lemon yellow at the center, outer petals are golden amber tipped white, and with an old rose reverse. Fairly large flowers of good exhibition qualities. Size 9 $\frac{1}{2}$ x4.

Root \$1.00, Plant .50

MIDWEST DAHLIA SHOW

This great annual get-together of leading dahlia enthusiasts, from all parts of the country, will be held in East Liverpool, Ohio, on September 20th and 21st. As this is the extreme eastern border of the Conference territory, it is expected that an unprecedented number will attend from the Eastern Seaboard.

A visit to our gardens, eight miles west of downtown Cleveland would make an interesting side trip.



KIRSTEN FLAGSTAD

KIRSTEN FLAGSTAD A-ID or FD-Or (Brown-Rocky River) Outstanding in the garden, producing large, fine blooms very early, and continuously throughout the season. Plants are tall with flowers held well above heavy, glossy green foliage. The color is rich gold suffused lightly with apricot. Winner of several "specials" at shows this past season. Size 9 $\frac{1}{2}$ x4 $\frac{1}{2}$.

Root \$5.00, Plant \$2.00

***KOKI** A-SC-BI. A blend of soft carmine and buff, lightly tipped buff. Blooms are fairly large and of good exhibition quality. Good stems. Size 9x5.

Root \$1.00, Plant .50

LADY IN RED B-SC-R (Hendricks) A very showy flower of bright velvety red. Flowers are medium in size. Plants tall. Size 7x4.

Root \$1.00, Plant .50

***LAETARE** B-SC-BI An attractive, medium sized flower of orange-red edged chrome yellow. A great favorite with our visitors and very useful as a florist's flower. Size 7x4.

Root \$1.00, Plant .50

L. C. K. B-StC-BI (Koenig) Medium sized, neatly formed flowers of bright apricot yellow suffused rose on the outer tips of the petals. Slightly below medium height in plant growth. A fine producer. Very useful as a cut-flower. Size 6x3.

Root \$3.00, Plant \$1.50

LEAH PEARL B-FD-BI (Keiser) A medium sized flower of a pleasing shade of light pink and cream. Flowers are globular in form, being regarded by many as a ball dahlia. A fine cut flower. Size 7x4.

Root \$1.00, Plant .50

LIDICE A-ID-Y (Kemp) A strong, vigorous grower producing an abundance of fine blooms. The color is a delicate ivory-cream deepening to yellow at the centers. Size 9x4 $\frac{1}{2}$.

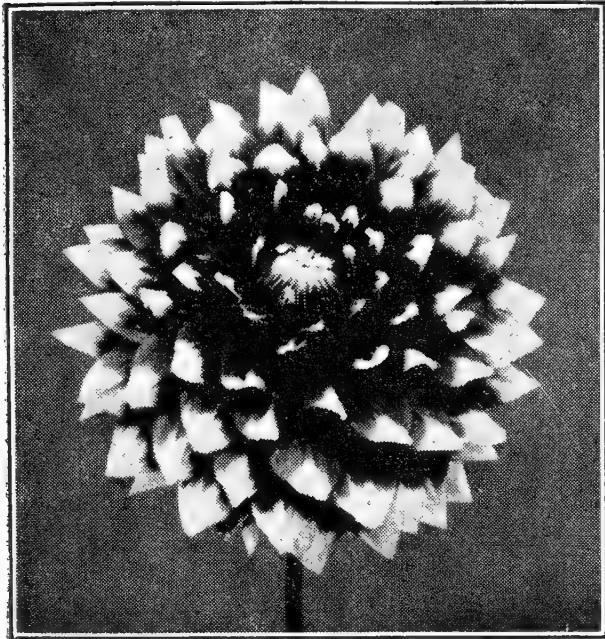
Root \$2.00, Plant \$1.00

LINK'S BLUE TRIUMPH A-FD-L (Link-Premier) An improved Blue River; slightly larger and with better foliage. Good stiff stems. A consistent winner in its class. Size 9x4.

Root \$1.00, Plant .50

LINK'S SENSATION A-SC or ID-BI (Link-Premier) A large, deep flower of a mixture of buff and scarlet, blending to appear orange. Reverse is bittersweet-orange which shows on the face of the flower as the petals twist. Good, strong stems. Free bloomer. Foliage is leathery and insect resistant. We consider this one of the best of the 1944 introductions. Size 9½x5.

Plant \$1.50



LOIS WALCHER

LOIS WALCHER B-FD-Bi (Walcher) This sensational winner as a seedling, continued its fine record during the past season. We regard this as one of the finest true bi-colors on the market. Flowers are of medium size, true pansy purple, evenly tipped a clear white. We recommend this one be given good cultural methods for best results. Plants are low to medium in height, with dark green foliage. Stems are long and unbending. Size 7x4.

Root \$1.00, Plant .50



LORD OF AUTUMN

LORD OF AUTUMN A-ID-Y (Almy) One of greatest of the great. This big, artistically formed beauty is one of the greatest winners at all shows. It has many "largest bloom in the show" awards. The clear yellow flowers have exceptional depth. Although it is regarded as a bit temperamental in its growing habits, we believe that everyone interested in the largest ones should try it. Our stock has produced many winners. Size 10x6.

Plant .75

LOVELINESS B-StC-BI (Parenica) A nicely formed cactus with good substance. The color is rosy pink with salmon, blending into sulphur yellow at the base. Good habits of growth and good stems. Size 6x3.

Plant \$2.00

LUCKY B-StC or SC-R (Schutte) A bright red cactus. Ideal for cut-flower work or exhibition. Blooms are held facing on stiff wiry stems. Starts blooming very early and continues to produce freely throughout the season. Size 7x4.

Root \$3.00, Plant \$1.50

LUZON B-StC-L (Retzer) Clear liseran purple giving the general effect of lavender, a color which is needed in our shows. A strong grower. Size 7x4.

Root \$3.00, Plant \$1.50

LYNN FONTANNE A-SC or ID-R (Lee-Parrella) One of the very largest. A frequent winner of "largest bloom" awards. The color is spectrum red with shades of carmine towards the tips and with chrome yellow petaloïds throughout the flower. A strong grower and a good keeper when cut. Blooms face the side on strong stems. This is a dahlia which is still growing in popularity with those who like the big ones. Size 11x7.

Root \$1.50, Plant .75

***MAFFIE** A-SC-R. A very highly regarded dahlia of recent introduction. The color is an intense, bright red. Nearly always a contender for largest bloom in the show honors. Tall, open grower. Size 11x6.

Root \$1.50, Plant .75

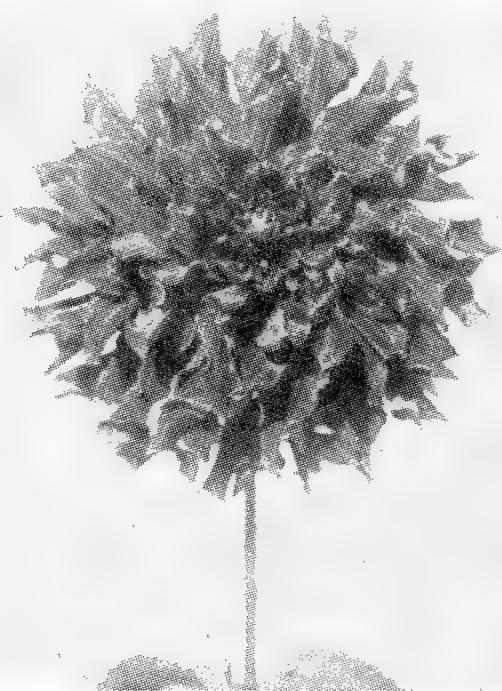
MAGIC PRINCE A-SC-BI (Hulin) Introduced as a lilac mauve but with us it is a clear rose pink. The well formed blooms are of fairly large size and they are produced in great abundance on tall plants. Stems are excellent. Very outstanding in its class at shows. Size 9x4.

Root \$1.50, Plant .75

MAGNA CHARTA A-ID-Pi (Ballay) Large flowers with broad petals of deep, old rose. Stems are long and strong. Size 10x5. Plant \$1.00

***MANDELAY** A-SC-Y A very "clean" flower of a one-tone clear, pleasing yellow. Tall grower. Size 9x4.

Root \$2.00, Plant \$1.00



MARGRACE

MARGRACE A-ID-R (Bissell) A really striking variety of brilliant scarlet, tipped gold, and with gold at the base of the petals. Large flowers, long stems and tall bushes, of open growth. A consistent winner. Size 9½ x 5.

Plant .75

***MARION SMITH** A-ID-Pi. This Australian introduction of recent date is one of the finest from this source. The blooms can be grown to very large size as shown by its winnings in "largest bloom" classes. The color is Tyrian pink overlaid mallow pink. Strong, erect, stems hold the flowers erect. Petals roll well back giving the bloom a massiveness without coarseness. Size 10x5.

Root \$2.00, Plant \$1.00

MARY LYNN DUDLEY A-SC-R (Dudley) A very large semi-cactus in the dark red shades. True carmine with outer petals of a rich, velvety texture and the centers almost black. A nicely formed flower on long stems. Size 9x4.

Root \$1.50, Plant .75

MARY NOBLE A-FD-L One of the best of it's color and type. Phlox pink to bright mauve. Blooms have size, depth and good quality. Plants vigorous. Size 10x6.

Roots \$5.00, Plant \$2.00

MARY TAYLOR B-StC or IC-BI (Taylor) A fairly large cactus of grenadine pink flushed cream and with a yellow center. A good grower and root-maker. Size 8x4.

Root \$1.00, Plant .50

MICHIGAN WHITE B-ID or SC-W (Keiser) One of the very best of the white cut-flower dahlias. The well formed flowers seem to "pop" out over night on long, strong stems. Substance of the flower is excellent, the flower keeping well when cut. Size 7x4.

Root \$1.00, Plant .50

MILADY (Dozier) An informal decorative of fair size. Color is magenta rose. Excellent, long stems hold the deep flowers well above the very robust plants. Good for cutting or exhibition. Will probably be classed as a B size flower. Size 8x4.

Root \$3.00, Plant \$1.50

MISS BAINBRIDGE A or B-IC-Pi (Robens) A pink cactus with lacinated petals lightly tipped pinard yellow. Flowers are fairly large with excellent stems. This 1944 introduction accounted for more ribbons than any other 1944 introduction at the shows we attended the past season. Size 8x4.

Root \$2.00, Plant \$1.50

MISS SAN DIEGO A or B-StC-BI (Comstock) One of the finest and most distinctive of the 1946 introductions. The nicely placed petals are deeply notched giving added character to the blooms. The pleasing color combination of Tyrian pink shading lighter and into sulphur yellow at the base of the petals has made it an immediate favorite. Size 8x4.

Root \$10.00, Plant \$3.50

***MME C. JUSSIANT** B-IC-L A French variety of good size for it's type and one which is much in demand by exhibitors as it is one of the few good lavender cactus. Size 7x4.

Root \$1.50, Plant .75

MOTHER KOENIG A-ID-BI (Koenig) A large shrimp pink blending to yellow at the center. An early and free bloomer, which stands heat well in the field. Size 9x5.

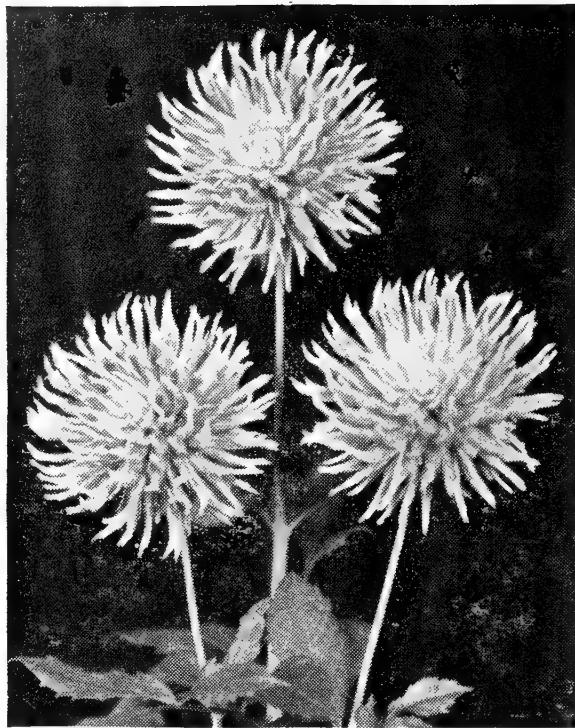
Root \$3.00, Plant 1.50

***MOYNA** A-St-C or SC-BI. Large, well formed blooms of excellent substance. Centers are yellow blending to a lively rose-pink toward the outer edges of petals. Stems are very good. Plant grows quite tall. A fine exhibition variety. Size 10x4½.

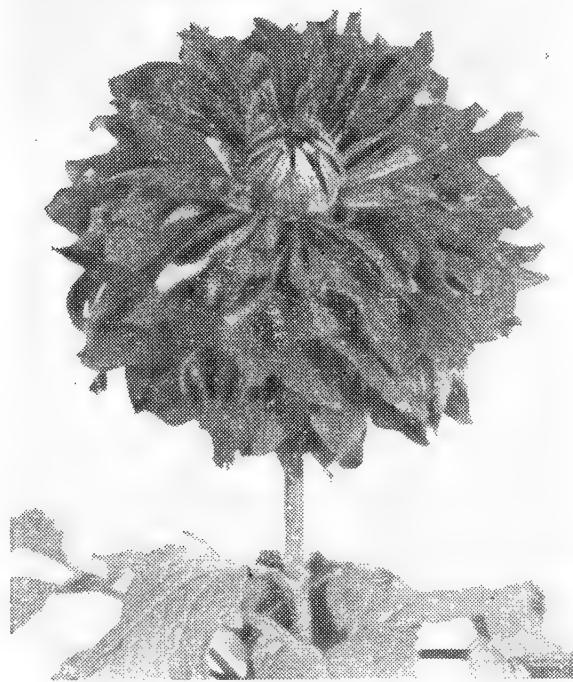
Root \$3.00, Plant \$1.50



MOTHER KOENIG



MRS. E. J.



MRS. HESTER A. PAPE

NANCY ANN MITCHELL B-IC-R (Ruschmohr) A fairly large cactus of excellent form on graceful, long stems. Flowers are a vivid scarlet. The free blooming habits coupled with the striking color make this one a center of focus in the gardens. It is also a very consistent winner on the show table. Size 8x4.

Root \$1.50, Plant .75

OAKLEIGH MONARCH A-FD-R (Hook) A big, dark red, formal decorative, which has been one of our most consistent performers. Plants are very vigorous, stems are excellent, and a great number of flowers are produced throughout a long season. We consider it, by far, the best in its class. Size 9x4 $\frac{1}{2}$.

Root \$1.00, Plant .50

MRS. E.J. B-StC-Pi (Rocky River) The first year record of this bright pink cactus has justified the pride we took in it in naming it in honor of our wife. It is a strong grower producing an abundance of flowers on rigid stems. Petals have exceptionally good substance giving the flower unusual keeping qualities, a characteristic that has endeared it to florists. Cleveland florists prefer it to any dahlia in our fields. Perfection of form has made it a fine exhibition variety, having won "best in show" at several shows.

Root \$7.50, Plant \$2.50

MRS. HESTER A. PAPE A-ID-Pu (Pape-Rocky River) Another of our 1946 introductions that scored heavily in many shows thruout the country. It is classed as a purple but the color is one which is usually referred to as red, actually a reddish purple. It is a dahlia anyone can grow and grow well, and it is a dahlia which will stand "forcing." A real delight to the exhibitor. Size 10x5.

Root \$10.00, Plant \$3.50

MRS. HOWARD C. PHILLIPS A or B-ID-W (Asther) Fairly large flowers of delicate creamy white, nicely formed on good stems. Blooms very early and freely. A robust grower with glossy green foliage. Size 10x5.

Root \$2.00, Plant \$1.00

MRS. RICHARD G. ATKINSON A-ID-Y (Comstock) A flower which is very large in diameter. The color is sulphur yellow with a light greenish cast. Tall, strong grower. Size 11x4 $\frac{1}{2}$.

Root \$3.00, Plant \$1.50

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OGDEN REID A-ID-Pi (Kelly-Parrella) General color effect is "ashes of roses." Very large in diameter. Stems long and slender. Plants very vigorous and branching. Profuse bloomer. Size 10x4½.

Root \$5.00, Plant \$2.50

OHIO BEAUTIFUL B-StC-R (Parenica) One of the very finest of the dark "reds" of its type. Medium sized flowers on excellent stems. Its fine form makes it popular with the exhibition grower. Size 7x4.

Root \$1.50, Plant .75

100% A-ID or FD-Pi (Beaver) Mauve pink flower of large size. Petals are broad and long. Good stems. Plants are vigorous with heavy dark green foliage. Size 10x4½.

Root \$2.00, Plant \$1.00

ORANGE FLAME B-FD-Or (Seibel-Peck) The most brilliant orange color we ever saw in a dahlia. Flowers are of medium size, well formed with good depth, and are borne at a nice angle on long stems. A good bloomer. Plants are very vigorous, and open growers. Unsurpassed in its color as a cut flower and a good exhibition variety. Size 7x4.

Root \$5.00, Plant \$2.00

ORANGE PRINCESS B-StC-Or (Geer) An attractive cactus with orange-red at centers shading to true orange at the tips. Medium sized flowers on strong stems, and a good keeper when cut. Size 7x4.

Plant \$1.00

PARDNER A-ID-Or (Dozier-Robens) Nicely formed flowers for exhibition of peach buff on long ramrod-like stems. Plants are tall and rugged with dark foliage. Size 9x6.

Root \$7.50, Plant \$2.50

PATRICIA A-ID-Pi (Huey-Robens) an outstanding exhibition dahlia of light rose pink. Plants are husky and spreading, producing many blooms for a dahlia of this size. Size 11x6.

Plant \$3.50

***PINK GIANT A-ID-Pi.** Large flowers of bright, clear, rose-pink. A great favorite with garden visitors and a fine show flower. It is a border-line variety as to type; being a true semi-cactus under some conditions when fully mature. Size 9x5.

Root \$1.00, Plant .50

PINK MUM B-InC-Pi (Grohall-Northbrook) A bright pink cactus with the shaggy appearance of a chrysanthemum as the petals curl and twist. Long stems and good keeping qualities make this a good cut flower as well as one for exhibition. Size 8x4½.

Root \$7.50, Plant \$2.50

PREMIER'S WINSOME A-ID-Pi (Swezey) An early, free bloomer bearing lots of large flowers of an attractive satiny, light pink. No trace of mauve so common in "pink" dahlias. Plants are nice growers and fairly tall. A real delight in the garden and one which is winning its share of ribbons on the show tables. Size 10x5.

Root \$1.00, Plant .50

AMERICAN DAHLIA SOCIETY SHOW

The thirty-third annual dahlia show of the American Dahlia Society will be held in New York on September 23rd and 24th.

CLEVELAND DAHLIA SHOW

The Dahlia Society of Ohio sponsors its seventeenth annual dahlia show in Cleveland on September 13th and 14th. Place to be announced later.



PREXY

PREXY A or B-FD-Bi (Wind) Oxblood red, tipped white. Plants are open growers. Foliage is a very dark bronzy green. Like most bi-color varieties, this one produces some solid colored blooms. In spite of some erratic tendencies, we consider it the best formal bi-color in the class for "over eight inches." Size 8x4.

Plant \$1.00

***PUNCTUEEL** B-SC-Y Well formed, medium sized flowers on ideal stems. Clear, clean yellow. Size 7x4.

Root \$1.50, Plant .75

PRIMROSE (Bissell) An attractively formed flower of fair size. The color is straw yellow, with rose pink reverse. A wonderful keeper when cut. Stems are long. A fine variety for basket work. Will probably be classified B-SC-Bl. Size 8x4.

Plant .75

PURPLE MIST A-FD-Pu (Emmons) A large, well formed purple which starts blooming early and freely. A good exhibition variety. Size 9x4.

Root \$1.00, Plant .50

***PYGMALION** A-SC or IC-Or. A Holland dahlia of real worth. Blooms are large. The color is an attractive orange-tan with peach-red suffusion toward centers. Plants are rugged and spreading. Size 9x4.

Root \$2.00, Plant \$1.00

QUEEN CITY B-FD-R (Peck) A light red, ball-shaped flower of medium size. An excellent keeper as a cut flower. Early and prolific. One of the best in its class for exhibition. Size 7x5.

Root \$1.50, Plant .75

RADAR A-ID-Bl (Strasen) An unusual color combination. Base of petals lemon-yellow shading to bright velvety red. Petals are flushed and edged gold, with gold reverse. Flowers are large and stems are good. Size 10x5.

Root \$5.00, Plant \$2.00

RAY SMITH A-SC-L (Scheffel) Mallow purple blended lighter tones of pale purple, lighter at the centers than on outer floral rays. General effect is lavender. Nicely formed blooms. Tall grower. Size 9x4½.

Root \$7.50, Plant \$2.50

***REV. PUGH.** An Australian variety of very striking color. The flowers are a brilliant, orange-red, and of large size. Blooms are carried on top of very strong stems. Plants are exceedingly vigorous with dark green foliage. In type it is border line between formal and informal. Size 9x4.

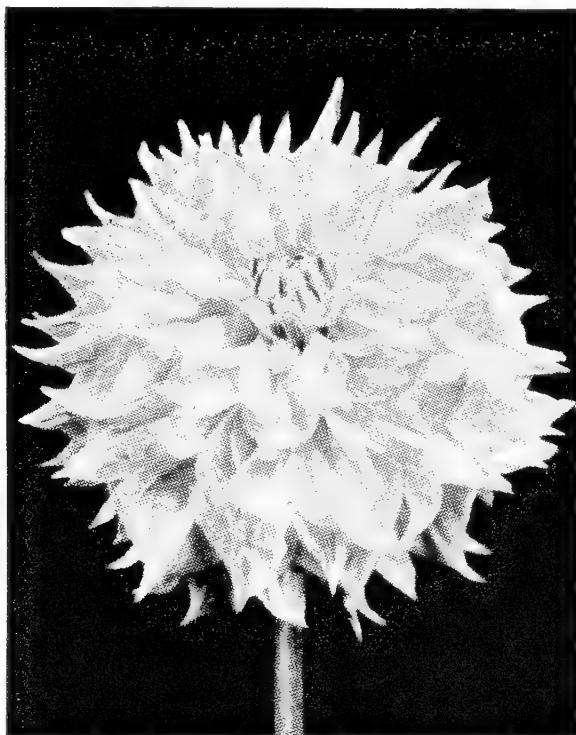
Root \$2.00, Plant \$1.00

RHYTHM A or B-IC-Bl (Dozier-Dahliadel) A medium sized variety of fine form and delicate coloring. The color is an unusual cameo pink suffused soft rose. Petals are serrated giving the flower added character. A good producer. Very useful as a cut flower and a consistent winner on the show table. Size 8x4.

Root \$3.00, Plant \$1.50

RITA WELLS A-ID or SC-BI (Ruschmohr) Without question, this one produced our largest blooms last season. Great depth give the blooms a massiveness which never failed to stop visitors. Blooms are held nicely erect on long strong stems. Plants are in keeping with flowers of such huge proportions. The color is grenadine pink on buff gold. Size 12x7

Root \$2.00, Plant \$1.00



ROBERT RIPLEY

ROBERT L. RIPLEY A-ID-L (Salem) One of the largest. It has unusual depth. Color is a deep lilac rose. Strong, cane-like stems hold the blooms facing up. The very strong, rugged plants are always covered with large blooms. Size 11x6.

Plant .75

RONNIE LEE A-SC-Or (Dorff) Large blooms of scarlet-red and salmon-orange; general effect is orange. One of the best exhibition varieties introduced in 1945. An early bloomer. Size 10x6.

Root \$7.50, Plant \$2.50

ROSELYN STRAIGHT A-SC-BI (Straight-Wells-Ruschmohr) General appearance is apricot yellow shaded and streaked scarlet red; very tips of petals are lemon yellow. Fairly large blooms. Long graceful stems hold the flowers well above the plants. Very early and prolific. Size 9x4.

Root \$1.50, Plant \$.75

SANTA CLAUS B-ID-Bi (Hendricks) A bi-color of scarlet tipped white and with the scarlet overlaid buff-yellow. Petals

pointed and whirling like a pinwheel. A truly beautiful flower. Size 7x3.

Root \$2.00, Plant \$1.00

SARETT'S PINK FLAMINGO A-IC-Pi (Sarett-Ruschmohr) Outstanding in its class at shows. The color is Tyrian pink, with centers of empire yellow and tips of roseline pink. Blooms are well formed and of excellent substance. Centers and stems are excellent. Plant growth is vigorous; foliage dark green and tough. A free producer of flowers up to eleven inches in diameter. Size 9x4.

Roots \$3.00, Plant \$1.50

***SCARLET LEADER** B-SC-R. One of the most brightly colored dahlias in the garden. Vivid scarlet blooms on excellent stems. A fine cut flower. Size 7x3.

Root \$1.50, Plant .75

SHERWOOD'S PEACH A-ID-Or (Sherwood-Ruschmohr) This was the largest of the 1944 introductions in our plantings. Blooms have great depth and are carried facing side on cane-like stems. Plant growth is robust. Not an early bloomer but it is at its best for shows. Color is ocherous buff. Size 12x6.

Root \$2.00, Plant \$1.00

SILVER JUBILEE A-ID-Bi (Ballay) The informal bi-color classes are not too strong at shows and here is one which definitely can win. It is also attractive and a new color combination of rose-pink to lavender-pink nicely tipped white. Blooms are fairly large, of good quality, and have good stems. Size 9x4.

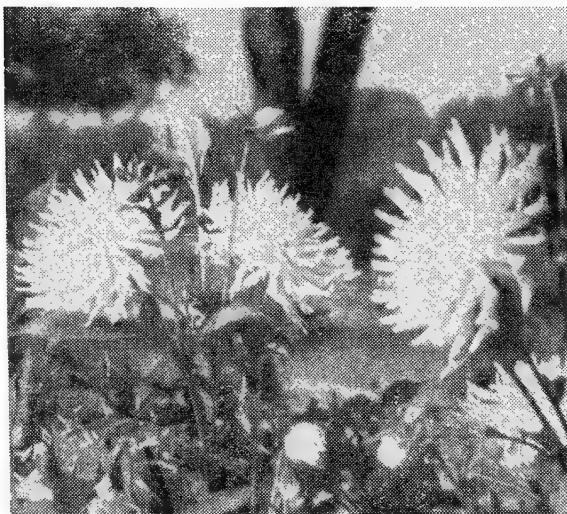
Plant \$2.00

SIR GALAHAD A-SC or ID-BI (Comstock) A brilliantly colored dahlia of scarlet with a blush blend and a salmon-orange reverse. Flowers are fairly large with long stiff stems holding the flower on the side. Plants are rugged with dark foliage. Size 9x4.

Root \$5.00, Plant \$2.00

***SNOWBALL A or B-StC or SC-W.** One of the finest white cactus sorts for exhibition. Blooms are quite large and deep. Stems are very good and the plants are good growers. Size 9x4.

Plant \$1.00



SNOWCREST



SON OF SATAN

SOUTHERN THOROBRED A-SC-L (Dozier) This is one of the very largest, and it is a very good bloomer too. The blooms are very deep and shaggy. Color is rose-lavender. This variety is a frequent winner in "largest bloom" classes. Plants are tall with dark, glossy foliage. Very outstanding. Size 11x7.

Root \$3.00, Plant \$1.50

STALIN B-IC-R (Zazo) A bright, velvety, non-fading red. Blooms eight to nine inches on excellent stems. Keeps very well as a cut flower; having exceptional substance. We believe this will endure after many of the other 1943 introductions are forgotten. The plants are strong growers. Size 7x4.

Root \$2.00, Plant \$1.00

STELLAETTE A-IR-R (Delbrugge) A tall, rugged plant, producing velvety, deep red flowers of large size. Cane-like stems carry the blooms erect at all times. Size 9 $\frac{1}{2}$ x4.

Root \$5.00, Plant \$2.00

SNOWCREST B-IC-W (Dahliadel) A white cactus of very fine form which will add zest to its class at the shows. Blooms are of medium size. Stems are ideal. Also a very free bloomer, producing many specimen blooms throughout the season. Size 6x3.

Root \$1.50, Plant .75

SNOWDRIFT A-FD-W (Robens) One of the largest of its type with broad petals, perfect centers and long stems. A pure, clean white. Size 10x4 $\frac{1}{2}$.

Root \$7.50, Plant \$2.50

SON OF SATAN A-IC or SC-R (Slocum) One of the largest and brightest of its type, intense flame red on excellent stems. Blooms up to twelve inches in diameter. Tall, open bush growth. A sensation in any garden and a winner in any show. Size 10x5.

Root \$1.00, Plant .50

SOPHIE K. HEINTZ B-IC or SC-BI (Parenica) Outer rows of petals are carmine rose tipped yellow. Centers are lemon yellow. An unusual color set up. Size 7x3.

Root \$5.00, Plant \$2.50

SOUTHERN ROSE A-ID-Pi (Dozier) One of the best and most attractive of the 1945 introductions. Flowers are large and of brilliant rose pink. Stems are excellent. A good bloomer. Size 10x5.

Root \$5.00, Plant \$2.50

STALIN B-IC-R (Zazo) A bright, velvety, non-fading red. Blooms eight to nine inches on excellent stems. Keeps very well as a cut flower; having exceptional substance. We believe this will endure after many of the other 1943 introductions are forgotten. The plants are strong growers. Size 7x4.

Root \$2.00, Plant \$1.00

STELLAETTE A-IR-R (Delbrugge) A tall, rugged plant, producing velvety, deep red flowers of large size. Cane-like stems carry the blooms erect at all times. Size 9 $\frac{1}{2}$ x4.

Root \$5.00, Plant \$2.00

STEPHEN FOSTER A-IC-Or (Salem) This is one for the large cactus classes. Flowers are consistently ten to twelve inches in diameter. Plants are tall and very hardy; growing well under all conditions. Because of its all-around good habits and uniformly high quality, it is one of the few "first year" dahlias that we have recommended. The color of the flower is orange-buff, lightly suffused with Tyrian rose on both the face and back of petals. Size 10x5.

Plant \$1.00

STRAIGHT'S WHITE A-ID-W (Ruschmohr) A large, well-formed flower of pure, glistening white. The long narrow petals roll and twist in a most artistic manner. Bushes are exceptionally vigorous for a variety of this color. Size 9 $\frac{1}{2}$ x5.

Root \$1.50, Plant .75

***ST. THERESE** B-StC-BI Dainty in formation and coloring. The tightly rolled petals give the flower an "airy" appearance and the delicate coloring of light lilac pink with white centers adds up to real beauty in the pastel shades. Size 6x3.

Plant \$2.00

SUNBURST A-ID-Y (Smith) A massive flower of deep golden yellow. A really worthwhile addition to our list. Plants are strong growers. Stems are strong. Flowers are carried well above the foliage. Size 10x7.

Root \$7.50, Plant \$2.50

SUNRAYS A-ID-Or (Ruschmohr) Very large blooms of buff with apricot suffusion. Stems are characteristically long, straight and smooth. We find it among the winners at nearly all shows and very often as largest bloom in the show. Medium low plants. Size 10x5.

Plant .75

SUNSET SPECIAL A-SC or ID-Or (Dozier) Large, flame-orange blooms with yellow reverse showing on the face of the flowers as petals twist. Blooms have good depth and substance, keeping well on the plant and after cutting. Size 9x4.

Root \$5.00, Plant \$2.00

SUPREME COMMAND A-FD or ID-R (Boram-Parrella) Bright scarlet-red with a bronze sheen. Good grower with heavy foliage. Size 9x6.

Root \$7.50, Plant \$2.50

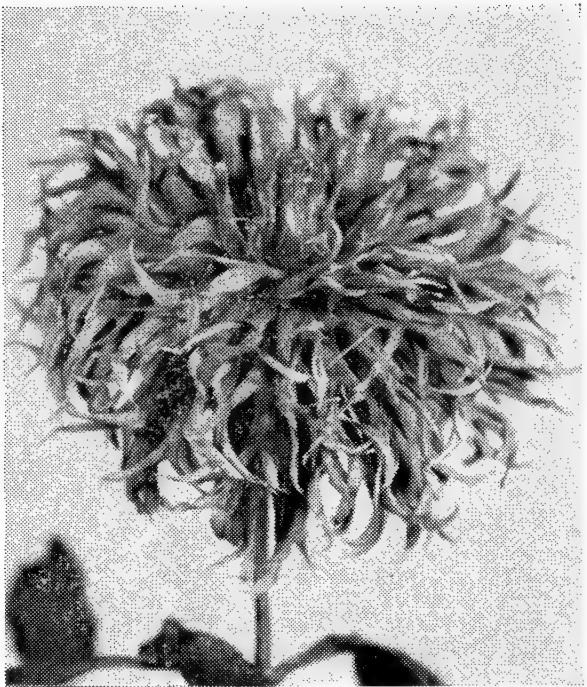
***SYDNEY** A-ID-BI. This is one of the finest New Zealand dahlias which has come to our notice. The color is a beautiful rose-pink with a tinge of gold throughout and at the base of the petals. Blooms are large in diameter and the petals roll back to the stem forming a massive flower. Stems are excellent. Plants tall. Size 9x4.

Root \$1.50, Plant .75

Join Your Dahlia Society

Dahlia societies are the backbone of dahlia interest and merit your active and financial support. Nearly every state, and many localities in these states, have societies working in the furtherance of general dahlia culture and the dissemination of information regarding all phases of this culture. We will be glad to furnish such information as we may have in regard to the ones nearest you.

The American Dahlia Society and The Central States Dahlia Society publish interesting and informative bulletins for their members. Write us for membership applications.



TERRY

TERRY A-ID-L (Zazo) One of the most distinctively formed dahlias we have ever seen. The petals are long and narrow with serrated tips; rolling back to the stem in the manner of a deep informal decorative, but they are revolute as in cactus types. The flowers are large and correspondingly deep. The color varies from orchid-pink to pure lavender. Plants are low but of sturdy growth. Size 10x6.

Root \$5.00, Plant \$2.00

THE GOVERNOR A-FD-Y (Dahliadel) A large, bright, sulphur yellow, which is definitely a formal. True formals are scarce and this is a welcome addition. The petals are broad and turn back at the tips, giving the flower good depth. One of the leading winners in its class the past season. Size 9x4.

Root \$1.50, Plant .75

THE RANGER B-IC-BI (Salem) The color is true purple with white veins running the length of the petals; reverse is pure white, which shows on the face as the bloom matures and the petals roll and incurve. A dahlia for beauty as well as exhibition. Blooms are medium in size. Bushes tall. Size 8x4.

Root \$2.00 Plant \$1.00

THE REAL GLORY A-FD-W (Goodacre) A pure waxy white of good size, notable for its exceptional substance and good keeping qualities. The flowers are well formed and are carried nicely on perfect stems. It is a real competitor in the white formal classes. Strong grower. Size 9x4.

Root \$1.50, Plant .75

TOP FLIGHT A-SC or ID-R (Dozier) A fairly large bloom of very "neat and trim" appearance. The color is bright blood red, which does not fade even in the hottest weather. Stems are long, holding the flower facing slightly up. Bushes are tall. Size 9x4.

Root \$1.50, Plant .75



TOPS

TOPS A-ID-Y (Dozier) A real giant of the exhibition tables. The massive blooms are a clear yellow of one shade. Stems are good. Has won many awards as the largest bloom in the show. A well "finished" bloom has a decided tendency to be semi-cactus. Size 10x6.

Root \$2.00, Plant \$1.00

TUXEDO A-ID-R (Beaver) Fairly large blooms of cardinal red, lightly tipped and edged gold and with a silver reverse. Consistent in its growing habits. Size 9x4.

Plant \$1.50

V-DAY A-ID or SC-BI (Hendricks) A new color of mulberry-rose. Blooms are large with good depth. Plants are vigorous and free branching. A profuse bloomer.
Root \$3.00, Plant \$1.50

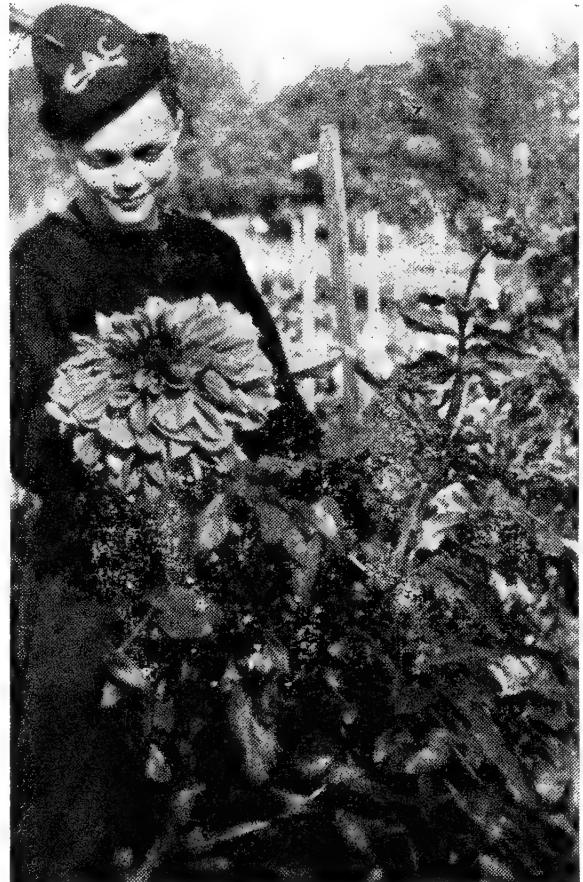
VICTORY A or B-FD-Pi or BI (Asther) Here is a large dahlia with good depth that is very formidable in the formal pink class, as well as being a very pleasing variety in the garden. The color is rose-pink with a golden suffusion. Tall plants producing many fine blooms. Size 8x4.

Root \$1.00, Plant .50

VIRGINIA RUTE A-ID or SC-R (Siebrecht) One of the outstanding dahlias in our list. Flowers are very large, deep, velvety, dark red of neat formation. Petals are broad and rolled to a point at the tips. Plants are tall, with blooms held high above the foliage on excellent stems. Early bloomer. Also a good root-maker. Size 11x6.
Root \$1.00, Plant .50

VOLCANO A-FD-R or Or (Richardson) A very large, well-formed flower of great depth. This was a standout in our gardens from early in the season until frost. The color is orange-flame red. The plant is a very strong grower with heavy, leathery foliage, which is insect resistant. Size 10x6.

Root \$1.50, Plant .75



VOLCANO

***WEISSE HIRSCH** B-StC-W. A very fine white cactus, with just a trace of lavender. Each petal is deeply cleft, giving the flower an appearance of great "fullness." Size 7x3½.

Root \$1.50, Plant .75

WENDY B A-SC-L (Garfield) A fairly large bloom with good depth. Color is lavender with lighter suffusions. Sturdy plants. Size 9x4.

Plant \$1.00

WHITE WINNER B-ID-W (Wolfe) A long stemmed, full centered flower, with unusually heavy petal texture. Vigorous plants are covered with flowers from early season until frost, producing well in the hottest weather. Size 7x3.

Root \$1.50, Plant .75

WINGS A-SC-R (Geer) Dark carmine, almost blood-red. Long, strong stems. Early and free bloomer. Size 10x5.

Root \$3.00, Plant \$1.50

***WM. H. SHINKFIELD A-ID-Cr.** A large Australian exhibition variety of real merit. Stems are excellent, holding the massive blooms erect, facing the side. The color is rich golden bronze. Twisting petals show the peach reverse. Size 10x5.
Root \$1.50, Plant .75

WOLFE'S GOLD A-InC-Y (Wolfe) A broad petaled flower of deep yellow. Plants are tall and vigorous with dark, glossy green foliage. Size 9 $\frac{1}{2}$ x5.
Root \$7.50, Plant \$2.50

WORLD EVENT A-ID or FD-Pi (Hendricks) A rose pink which fills a need in its classes at shows. Also a pleasing variety in the garden. A good grower and bloomer. Flowers carried facing the side on strong stems. Good size and depth. Size 9 $\frac{1}{2}$ x5.
Plant \$1.00

***WOSAL A-ID-BI** Color is a deep old rose suffused salmon and buff. Flowers are large and deep and the stems are strong. Size 10x6.
Root \$2.00, Plant \$1.00

***XANTINE A-FD-Y.** One of the best in it's class. Flowers are large and have excellent substance. Stems are long and strong. The color is light lemon-yellow. Plants are tall and rugged. Size 9 $\frac{1}{2}$ x4.
Root \$2.00, Plant \$1.00

YELLOW GLORY A-SC-Y (Dahliadel) A very large, lemon yellow with curled and twisted petals. Attractive, with good exhibition qualities. Size 10x5.
Root \$1.50, Plant .75

YOUR LUCKY STAR A-SC-BI (Wallace) A great favorite in our gardens. An unusual combination of dainty coloring in a large flower. The outer petals are lilac pink shading to a distinct white at the centers. Size 9 $\frac{1}{2}$ x5.
Plant \$1.00

***YOWU MATSUOKA A-Sc or IC-R.** A large ox-blood red of good form which, although we class it as semi-cactus, is often a true cactus. In either class it is usually a contender on the exhibition tables. Size 9x4.
Root \$1.50, Plant .75

ZEPHYR B-StC-R (Wind) Certificate of Merit at East Lansing with a score of 85.8 C. The general color effect is a rich cardinal red. Substance rated as excellent. Stems are of medium length. Very abundant flowering habits. The bushes are free branching with a height of four feet and a spread of four feet. The branches are slender to the base, but are rigid and erect, permitting cutting with long stems. The foliage is dark green. Plants do well in the open field with a minimum of care. We have found this to be the answer to a demand for a dark red cactus. Size 6x3.

Root \$1.50, Plant .75



ZEPHYR

Small Flowered Dahlias

These small flowered dahlias are becoming very popular because of their general usefulness. They lend themselves nicely to effects in the landscaped garden, or in the borders, furnishing a mass of color over a long season. As a flower for arrangements, they are ideal, lasting a long time, and their great diversity of form permits unlimited possibilities in their arrangement. They also hold a prominent place in all dahlia shows.

The small flowered sorts require less care and attention than the larger types. No disbudding is necessary; the smaller the flower, the better. They require less space than the large types and staking is unnecessary except for the taller growing sorts. All are selected for their free flowering traits. The varieties in the following list average twenty-four to thirty inches in height unless otherwise noted. Ordinary garden soil is preferable to "rich" soil for early and profuse blooming.

See classifications on page 3

	Root	Plant
ALICE J Ba-Pi Large pink. Outstanding ball.....	\$1.00	\$.50
ANDREA'S ORANGE M-StC or SC-Or Bright orange.....		.50
BETTY ANN Pom-Pi Clear light pink.....		.50
BRASS BUTTON Pom-Y Deep golden yellow.....		.50
BRIGHT FLASH S-R Large, bright red. Tall. Good.....		.50



BRIGHT IDEA

DRUIDSVILLE M-SC or StC-W Best white of the cactus types. Fine lacy foliage	1.00	.50
BRIGHT IDEA M-FD-Bi Very outstanding. Red tipped white	\$1.50	\$.75
BRONZE BEAUTY Pom A good cut-flower. Bronze-orange.	.50	
BUCKEYE BABY M-FD-Or An exhibition sized miniature of tan-orange .....	.50	
CHARLOTTE CALDWELL Ba-Or Low Growing border plant. Orange .....	.50	
CORAL BLEND M-FD-BI Blend of pink and cream .....	.75	
CLOVER Pom-BI A tiny exhibition sort. White faintly edged pink .....	.50	
DEE DEE Pom-L Good quality lavender pom. Long stems .....	.50	.50
DOUBLE VICTORY M-SC-R Excellent, brilliant red with notched tips. Tall grower.....	3.00	1.50

		Root	Plant
DUBONET M-SC-R True dubonet shade		1.00	.50
DUSKY M-Ba-R Small dark red ball .....		.75	
FAIRY M-FD-L Fine for exhibition or cutting. Pink to lavender pink.....		.50	
GAY LASSIE S-BI A most attractive single of maroon tipped straw yellow. Tall		2.00	1.00
GIRSHAM Pom Well formed exhibition type. Pink with white centers.....		1.00	.50
GOLF BALL Pom-BI Very deep pom. Tan edged red.....			.50
HONEY Pom-BI An old favorite. Yellow edged red.....			.50
ILA Pom-R The outstanding red exhibition pom. Dark red.....		1.00	.50
JEAN KERR Ba-W A cutflower of merit .....			.50
LEMONADE M-FD-Y New, lemon yellow with good stems		1.50	.75
LITTLE BLUE STAR M-ID or SC-Bi Purple tipped white		1.00	.50
LITTLE DIAMOND M-SC-Pi One of the finest pink semi cactus.....			.50
LITTLE DAVID Pom-Or Well formed reddish orange .....			.50
LITTLE EDITH Pom-BI Small exhibition variety. Yellow edged deep red....			.50
LITTLE OTHELLO M-S-R Small single. Almost black .....			.50
LITTLE PEACHES M-StC-Pi Very good pink blended buff		1.50	.75
LITTLE ROSE Pom Small, well formed blooms. Good		1.50	.75
LITTLE WISTERIA M-FD-L Wisteria shades with darker centers.....		.75	
MARKET GLORY M-SC-Pi Reliable cutflower. Rose pink .....			.50
MARKET JEWEL M-SC-R Attractive, brilliant blood-red		1.00	.50
MISS MARJORY Pom-Pu The outstanding purple exhibition pom		1.00	.50
MORNING MIST Pom-BI Cutflower sized pom. White edged lavender....			.50
MRS. J. TELFER Pom-W Best exhibition white pom		1.00	.50
ORANGEADE M-FD-Or A lively color of orange. Very outstanding		2.00	1.00
PETIT PRINCE M-SC-BI Bright red blended yellow .....			.50
PEQUOIT YELLOW S-Y The outstanding yellow exhibition single .....			.50
RED CAP JR. M-SC-R Brick red cutflower .....			.50
RED DELIGHT Coll-R with Y One of the finest and showiest collarettes....		1.50	.75
RHONDA Pom-BI One of the best poms in this list. Very small with numerous finely quilled petals. Pink and lavender, lighter toward center....			..75
ROSY DAWN Ba-BI An outstanding ball dahlia. Golden yellow edged and flushed red .....			.75
RUDD Pom-R Wine red with long stems. Good for cutting .....			.75
SHERRY Pom-Pu An old favorite. Deep purple .....			.50
SHIRLEY BROWN Pom Pink with distinct white centers .....			.75
SNOW M-FD-W Nicely formed white on long stems. Tall		3.00	1.50
TANGO CENTURY S-Or Tall growing, orange single .....			.50
TECUMSEH Ba-R Large, dark red ball .....			.50
WHITE FAWN M-FD-W Fine for cutting or exhibition. Pure white		1.00	.50

DAHLIA SEED



MR. PAPE, GROWER OF THE SEED WE OFFER

After extensive trials by ourselves and customers, we are prepared to make claims of distinct superiority for our seeds. These seeds are grown for us in Southern California from stock of our best varieties, which we send there for the purpose of seed production. The grower is a man of more than twenty-five years experience in dahlia growing. No small type dahlias are grown on his ranch.

In California, more varieties will produce pollen and seed than in any other section of the country. This not only produces seed from a greater number of parents, but it also permits a far greater number of crosses, thereby enhancing the chance of something new and distinctive.

100 seed of large flowered decoratives.....	5.00 net
100 seed of cactus varieties.....	5.00 net
100 seed of large flowered semi-cactus.....	5.00 net
1000 seed, any type or mixed.....	40.00 net

SEEDLING PLANTS

The growing of dahlias from seed is rapidly becoming a "side hobby" of dahlia enthusiasts. Each dahlia produced from seed is a new variety, and the one who produces it is privileged to name it and control the stock of it. Altho a great majority of the new varieties produced from seed are inferior to existing varieties, the thrill of anticipation in watching the first blooms open on each plant, and the greater thrill when something outstanding appears, makes the growing of seedlings a most fascinating project.

For those who do not have the facilities for growing the seedling plants (seed sown indoors March 1st to 15th), we are offering seedling plants. These plants are from the same high grade seed offered above. The plants are carefully grown and "hardened off," and are ready for the garden when received. Priced as follows:

\$2.50 net per dozen out of two inch pots.
\$1.50 net per dozen out of flats (no soil).

Cultural Hints

Although dahlias may be grown in almost any ordinary garden soil, to produce a beautiful effect in massed color with but little attention, they respond very readily to a little extra care.

Fine dahlias are the result of a number of factors, most important of which are: (1) good vigorous disease-free stock; (2) choice of varieties which naturally produce high quality blooms; (3) location of the garden; (4) proper planting; (5) cultivation; (6) intelligent fertilization and spraying; (7) pruning and dis-budding; and (8) the successful winter storage of the clumps.

Factors (1) and (2) need no comment other than that varieties which we offer in this catalogue are the result of several years of careful selection from the finest novelties placed on the market from all parts of the world. Each year we try many new sorts, then discard those which have no definite place in the better class gardens, and offer only the best to our customers. Our fields are carefully and frequently inspected. All inferior plants and those showing any symptoms of disease are destroyed. Our cultural methods are productive of the very finest quality roots and plants obtainable.

Selection of the location for the garden is usually quite restricted, but fortunately dahlias will do well in any type of soil and in a wide variety of climate. A good site is one that receives several hours of sunlight each day and has good drainage, so that water does not stand on the ground very long after rains. More important than the type of soil, or the location of the garden, is the condition of the soil at planting time, and during the growing season. We believe that more failures with dahlias are due to the lack of proper conditioning of the soil than to any other single factor. This is especially regrettable since it is a factor which may be easily controlled.

The soil of the garden should be kept loose while the plants are growing, especially in the early part of the season. Light, sandy soils need the least preparation, providing they contain enough humus to hold a sufficient amount of moisture. Humus may be supplied by planting a cover crop of rye in the fall to spade under in the spring, peat moss mixed into the soil, barnyard manures, and by vegetative refuse such as lawn grass clippings, leaves, etc.

Heavy clay soils may be made lighter by the generous use of furnace ashes or cinders mixed with the soil of the garden, or just in the hills. Lime also tends to loosen the soil but should not be used oftener than every four or five years and never in connection with barnyard manures. A cover crop of rye also aids in the loosening or lightening of the soil. Stirring the soil frequently to a depth of five or six inches helps to maintain the soil in proper condition. It must be remembered that the tender roots of the dahlia will not reach out as readily in search of food, in hard ground, as they will in looser soil. The dahlia is a very heavy "feeder" and needs a large, efficient, root system. Also, air and water penetrate more easily into loose soil to aid in the chemical transformation of soil elements into plant food.

Spade the garden two or three weeks before planting time. Leave the surface rough until actual setting of the roots or plants. Never try to "fit" the soil when it is so wet that it sticks to the tools. Planting should not be started until the soil has started to warm up in the spring, which in the latitude of northern Ohio is about May 15th to May 20th. Planting may be continued until June 15th or later.

We suggest planting in furrows or trenches about five inches deep, running the length of the row. Place the root flat in the bottom of the trench and cover with two or three inches of soil. Fill in the rest of the trench as the plant grows. Rows should be at least three, or preferably, four feet apart. Plants in the rows should be thirty-six inches apart when planting large sorts. (Small type dahlias sixteen to twenty-four inches apart.) Stakes to support the plant later, may be driven at planting time, five or six inches from the eye or sprout. In planting green plants, we suggest soaking the ball of soil on the roots in a bucket of water for several minutes before planting. This eliminates watering after planting, thereby preventing "puddling" of the soil surrounding the plants. Our plants require no shading as they are well hardened. Plants which have been en route for five or six days may be acclimated to open air conditions by set-

ting them in the shade for a day or two after they are received. We do not recommend washing the soil off the roots before planting as is sometimes done. We have found that shallow planting of plants is conductive to better clump formation. For this reason we recommend that the ball of soil surrounding the plant in the pot be covered with no more than an inch of soil when planted in the garden.

Many failures with "GREEN PLANTS" are due to improper cultural methods at the start of the growing season. Normal growth should be the aim. It is not uncommon for the gardener to employ all methods within his knowledge to get his plants off to a fast start. A fast growth is also a soft growth which is easily injured by the heat and dry weather of mid-summer. Such injuries result in a check to the plant and a resultant hardening of the plant tissues. When the tissues become hard, or woody, they lose their properties to expand, or grow. Thereafter, no greater amounts of plant food can pass up through the stalk than was the case when the hardening took place. Growth practically ceases. When this has occurred, first class results can be obtained only by cutting the plant back to the ground and starting all over. In many cases this will be too late to obtain blooms.

Hardening may also be caused by a number of other factors. In some cases the condition may have been induced by planting too early, when the soil is too cold for normal growth. Some other factors which may cause this condition are: setting plants in the garden which have not been properly "hardened off" in cold frames, allowing the plants to dry out, excessive water, lack of cultivation, root injuries due to insects or fertilizers, as well as a number of others not so common. When growth has been normal the plant can cope with conditions which would cause a soft plant to suffer a check.

Cultivate once or twice each week to a depth of five or six inches in the early part of the season. Right next to the plant cultivation should not be as deep or some of the roots are likely to be cut off or injured. When the plants are in bloom and the spaces between the plants are pretty well filled with foliage no further cultivation will be necessary.

Water only in very dry weather. One thorough soaking is far better than several light sprinklings. Frequent watering brings the roots too near the surface where they are quickly injured by heat or drought. More water will be required after the plants start blooming than earlier in the season.

There are a number of elements in the soil which are needed for proper plant growth. Of these elements there are only three which are likely to be present in lesser amounts than needed by the plant. They are NITROGEN, PHOSPHORUS, and POTASH. In order to arrive at an intelligent fertilizer program we must understand the purpose of the above elements to the plant.

NITROGEN is needed for bush growth, dark green foliage, and large flowers. Plants growing in soil which is lacking in nitrogen show a yellowish cast to the leaves, low growth, failure to develop buds properly, and small flowers of poor color. Too much of this element produces a tall growth, soft plants, delays blooming, weakens stems, and reduces the keeping qualities of the roots in winter storage. It will injure leaves and roots if applied directly, or too close, of them. The common sources of nitrogen are cover crops, dried blood, fish scraps, barnyard manures and commercial fertilizers.

PHOSPHORUS is the most important from the dahlia grower's standpoint. It is essential in all plant functions. It hastens blooming, increases root development, stiffens the stems, increases the general vitality of the plant, and it overcomes the harmful effects of excessive nitrogen as well as certain other adverse soil conditions. Phosphorus is not harmful even when applied in excessive quantities. The common sources are: super-phosphate, double superphosphate, and bone meal. The latter also contains a small amount of nitrogen.

POTASH increases the general vigor of the plant, it is essential in the chemical changes occurring in the plant, and root formation is dependent upon its presence. The common sources are: muriate of potash, and sulphate of potash. Hardwood ashes are sometimes used as a source of potash but are not to be recommended owing to their variability in potassium (potash) content.

As a general thing, it is advisable to broadcast an 0-20-20 fertilizer over the garden about two weeks before planting. Five or six pounds per hundred square feet

of space is a good application. It should be thoroughly mixed into the soil when digging as the phosphate element is not readily moved down into the soil by water action. In some instances, owing to unfavorable soil reactions, it may be advisable to concentrate this application in the hole as it is prepared for planting. In this case, mix a good handful of the fertilizer in the soil under and around the plant. Avoid having any of the fertilizer in direct contact with the roots. This latter method will often remedy the failure of plants to make good clumps of roots. 0-20-20 is a commercial fertilizer formula indicating; no nitrogen elements, 20 per cent phosphorus and 20 per cent potash.

In average garden soil it will not be advisable to apply a nitrogeneous fertilizer at planting time, but if experience has proven that satisfactory growth early in the season is not possible without it, a small amount of barn-yard manures (well rotted) may be mixed with the soil at planting time. Nitrogen fertilizers are more satisfactorily used later in the season, after buds are formed, to give extra size to the blooms. A small quantity scattered lightly around the plant, not nearer than a foot from the stalk, and watered into the soil will decidedly increase flower size. One or two more, very light, applications at intervals of a week or ten days may further increase size. Dried blood and sheep manures are commonly available sources of nitrogen at most supply dealers. It should be noted that with the application of a nitrogen fertilizer the keeping qualities of the roots is reduced. Each subsequent application further reduces this keeping property and excessive application will injure the plant, and in cases, destroy it. Also, such applications tend to reduce the vitality of the stock for the following year. It will be well for each grower to determine which is of greater importance to him; extreme size, or good keeping roots of high vitality. Many leading exhibitors sacrifice their stock for utmost size of bloom, and purchase, or grow, other stock for the following year. Others try to strike a happy medium and still others avoid nitrogen fertilizers for "forcing" and depend on heavy disbudding and pruning for comparable results.

Regardless of which of the above plans are followed, some disbudding must be employed to bring out all the size possible in a bloom. After the buds appear it will be noted that they usually come in clusters of three. The one in the center is generally the strongest. Remove the other two and the effort that the plant would expend in producing flowers from them goes to the terminal bud which is left. The next two or three sets of branches (at each leaf below the terminal bud) may also be removed, further increasing the size of the bloom to be produced. Be sure, however, that at least one set of branches is left to produce the next flowers.

Many varieties have a tendency to grow straight up with but a single stalk. If a bushy plant is desired pinch out the top of the plant when it is about eighteen inches tall. Other varieties may produce too many branches in which case some may be cut out. Plants which have been pinched out may be dis-budded as per instructions above.

Successful control of insects is of prime importance in most localities, owing to the direct damage they do to the plants and the indirect damage caused by the insects carrying diseases from one plant to another. The first principles of effective control are proper insecticides and thorough applications at frequent intervals.

DDT has proven so highly successful as a control for many of the insects infesting dahlias that it is now the basis of nearly all our insect control recommendations. On those insects not controlled by DDT, we recommend a material that is compatible with DDT and can be used in the same spray or dust. Wherever DDT is recommended, either a 3% dust or a spray containing $\frac{3}{4}$ pound of actual DDT per hundred gallons is meant unless otherwise specified.

In the pest control program at our Rocky River farm, we use a spray as it is somewhat more effective and the material remains effective for a somewhat longer period on the plants. Spraying at intervals of two weeks is sufficient for excellent results in controlling most pests. Dusts may need to be applied at weekly or ten day intervals. We suggest that applications be not made oftener than necessary for good control.

The efficiency of DDT is due to the fact that it is long lasting in its effectiveness against insects, and because it is not necessary that the insects be present at the time of application. Any of the insects controlled by it will be killed simply by walking across sprayed surfaces as much as two weeks after applied. Rain does not greatly reduce the effectiveness of the material on the plants. Application may be made at any time of the day. DDT is compatible with most insecticides, except those containing lime, and may be applied at the same time in one application.

If a dust is preferred, a 3% dust can be purchased ready to use, which will do the job as well as dusts of higher concentrations, and with less possibility of ill effects to plants. If a 3% dust can not be purchased in your locality, a dust of higher percentage of DDT may be reduced to 3% by adding the proper amount of talc or sulphur. Never use lime with DDT.

The spray which we use is made up to contain $\frac{3}{4}$ pound of actual DDT crystals to 100 gallons of water. To make up the spray, a wettable powder should be used. Most of the powders on the market for this purpose also contain spreaders so that it is not necessary to add anything to the powder. We use Deenate 25W manufactured by duPont, which contains 25% DDT, or one fourth of each pound. Thus it will require three pounds of the 25% material to supply the $\frac{3}{4}$ pound of actual DDT needed for 100 gallons of water. This is approximately $\frac{1}{2}$ ounce per gallon.

DDT is not soluble in water but mixes readily to form a suspension (materials suspended in water). Since it is a suspension, it is necessary to keep the material well agitated after mixing until used. In this form (suspension), DDT is not injurious to the user and can easily be washed off the hands. However, it is well to avoid contact of the material with the skin as much as possible.

CAUTION: Be sure the material you purchase is made specifically for application to plants.

APHIDS cause a lessening of vitality by sucking plant juices. Easily detected as they usually are found in clusters on the stems and around buds. Soft bodied insects which remain quite stationary on the plant. They may be black, red or green. Control by dusting or spraying with contact insecticides such as nicotine sulfate (Black Leaf 40), pyrethrum extracts or rotenone according to manufacturer's directions. DDT is partly effective on aphids but can not be relied upon to control them completely at all times. However, the suggested materials for aphid control can be combined with DDT.

CORN BORERS drill holes into the stalk, usually at a leaf or branch. They live and grow inside the stalk, eventually enlarging their bores until a portion of the plant is so weakened that it breaks down. The adult moth of the corn borer lays its eggs on a leaf. As the eggs hatch the larva starts moving toward the stalk eating tiny trails in the leaf surface. It is at this time, only, that control measures are effective. DDT is a very effective control. The material must be present on the plant surfaces as the eggs hatch and the larva start for the stalk. For best results it may be advisable to apply the DDT at shorter intervals during the short hatching period. Your County Agricultural Agent may be able to tell you when that period will be.

CUT WORMS hide under clods or in the soil during the day and emerge at night to cut off young plants, usually at soil level. If these pests are not too numerous they may be controlled by carefully searching the top inch or two of soil within a few inches of the plant and destroying the grub which is often two inches long and fleshy. Heavy infestations may be controlled by scattering poison bran mash lightly over the garden area. DDT is effective for climbing cutworms and others when they must cross sprayed or dusted surfaces.

GRASSHOPPERS need no description. Damage to blooms can be greatly lessened by applying DDT to grass and weeds surrounding the garden. The greater the area treated, the greater will be the control. Increasing the concentration two or three times over the standard recommendation will give best results.

JAPANESE BEETLES which are very destructive to blooms, and their presence readily detected, can be controlled by DDT sprays.

LEAF EATING INSECTS AND CATERPILLARS, whose presence is evident by their eating of foliage, readily controlled by spraying or dusting with stomach poisons such as arsenicals. DDT also seems to control, either as a spray or dust.

LEAF HOPPERS are small greenish-yellow, flying insects which are very active in warm weather. Disturbing the plant will cause them to fly rapidly away and they can best be detected in this way. They are usually found on the under sides of the leaves sucking the plant juices, causing the edges of the leaves to turn yellow, eventually browning and destroying entire leaves at the bottom of the plants. Previous controls have not been very effective unless applied every two or three days. DDT will control them almost 100%.

RED SPIDER MITE, or simply red spider, are very small black and white to brownish, minute insects, nearly always found on under sides of the leaves. A magnifying glass is necessary to see these tiny insects but their damage is apparent by browning of the lower, and to lesser degree, the upper surfaces of foliage. Under sides of the leaves usually appear to have "rusty" areas and a sort of silky appearance. In the past they have not been serious pests of the dahlia except in isolated cases. However, if DDT is used as a control for other insects, it is likely that red spider mite will be very prevalent and cause much damage if not promptly controlled. To make matters worse, DDT kills the predators or parasites which normally feed on the mites. "Dowspray-17" applied according to manufacturer's directions has proven highly effective as a control, especially when combined with DDT. Dowspray-17, as the name applies, is a spray material manufactured by the Dow Chemical Co., Midland, Mich. It seems far superior to all other standard red spider sprays. "DN-269" another DN compound has proven effective as a dust and much more effective than any previous dust for this purpose. Applications of spray or dust must be thorough and applied to the under sides of the foliage as well as the upper surfaces. NNOR may be substituted for Dowspray-17.

TARNISHED PLANT BUGS are small plant bugs about a quarter of an inch long, brown mottled with shades of red and yellow. They are seldom seen on the plants as they fly away at the slightest disturbance. The bugs puncture the stalk, stems and buds, causing small black spots. Growth of stung part is severely checked, causing a shortening between nodes of the plant, shortening of stems, and causing buds to open one-sided or to fail to open at all. Badly infested plants are short, very bushy and never produce presentable blooms. DDT has proven highly effective in the control of this troublesome pest which has been very difficult to control before.

THrips are very small, light greenish-yellow to dark brown insects which may be found by close examination of unfolded leaf tips and among petals of the flowers. A magnifying glass will aid in finding them as they are almost invisible to the naked eye. They cause malformed, dark spotted and blistered appearance of the leaves and often result in stunting of the plants. They are easily controlled with DDT. The Tarter Emetic and brown sugar spray, previously recommended, is still considered an adequate spray material.

Considerable success in keeping down the ravages of pests has been obtained by some growers by frequent, over-head watering, during the hottest part of the day. The water is turned on for a couple of hours every two or three days. This method is more practical on light, well drained soils than on the heavier soils which may become saturated to the detriment of the plant.

DISEASES rob the plants of vitality, and in the case of some diseases, eventually destroy the plants. Control methods require destruction of all infected plants as the symptoms become apparent. Control of insects prevent spread.

MILDEW, common in the fall, is well-known. Control by dusting the under side of lower leaves with dusting sulphur, about Sept. 1st. One application will suffice for the season.

After the frost has destroyed the plants in the fall cut the stalk off at the ground. An ordinary saw is fine for this. If possible leave the clump in the ground for a week or ten days before digging. A long tined fork is best for digging the clumps. Be careful not to break or even strain the necks of the tubers. One person, with a fork, on

each side of the clump to be dug can lift the clump out with less damage. Do not leave the clumps exposed to the sun or wind for more than a few minutes. If the clumps are too moist to store at once dry them off a bit in the shade or basement. Cut the stalk off to within a couple of inches of the crown. This largely helps to prevent stem rot later. Store the clumps in containers well lined with newspapers to keep out the air as much as possible. Keep the containers in a cool frost-proof basement. After the clumps have been stored for three or four weeks examine them for stem rot or other decay. If decay has set in leave them exposed to the air for a day. Splitting the clumps in two will help prevent stem rot. Trim out any decayed parts and dust with sulphur. A little sulphur sprinkled over the clumps when they are put in the containers will prove beneficial. If the clumps show signs of shriveling moisten them with a little water and add more covering.

The clumps may be divided at any time but it is best to wait until the eyes or sprouts show distinctly. Never plant the entire clump. For best results divide it so that there is but one sprout to each division. Usually good clumps will average four or more divisions.

We will be glad to answer any further questions regarding these or any other phases of dahlia culture. OUR SERVICE DOES NOT END WITH THE SALE.

How To Handle Cut Flowers So They Will Keep

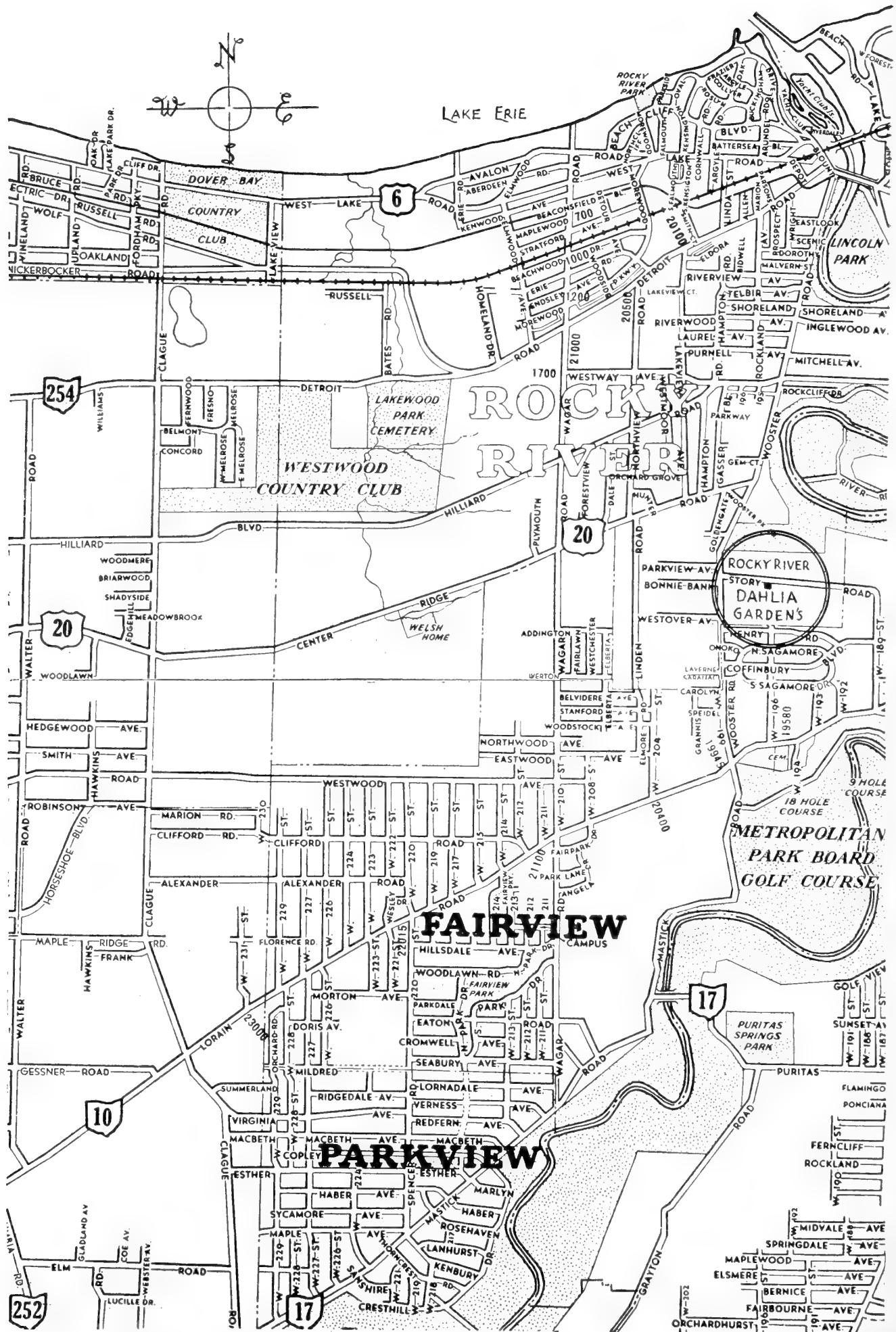
The life of dahlia blooms after they are cut may be very much prolonged by a few simple precautions taken at the time of cutting.

First of all, cut only FULLY MATURED blooms. Flowers with a withered petal or two on the back will keep longer, under similar conditions, than young blooms. If desired, the withered petals may be picked, or cut off. Cut a longer stem than will be necessary in the vase or container, for which the flowers are wanted.

Cut the flowers early in the morning before they start to wilt, or in the evening after they have revived from the effects of the sun and winds of the day. Make the cut with a sharp knife so that the microscopic tubes in the stem, which supply water to the flower head, are not crushed.

Flowers should be cut at least eight hours before it is planned to use them. As soon after cutting as possible, the stems should be placed in deep cool water in a cool, draughtless and dark part of the basement. When putting the flowers in water in the basement, it is to considerable advantage, to trim off an inch or two of the stem under water. This cuts off the portion of the stem into which air may have entered the microscopic tubes and choked off the supply of water passing up to the flower head. When the supply of water fails, of course the flowers wilt.

After the period of "hardening" or "finishing" in the basement, the flowers may be used for their intended purpose. In placing them in their permanent containers it is well to again trim off a small portion of the stem under water. In fact, this should be done each time the stem is out of water for more than a moment. Use only CLEAN water and CLEAN containers; factors which are important but often overlooked. Thereafter change the water once a day and trim off the stems. Set the containers out of direct sunlight and draughts. Follow the foregoing suggestions and you will find the dahlia a long-lasting flower.



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